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OM protein - protein search, using sw model:

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 Seconds  
(without alignments)  
169,590 Million cell updates/sec

Title: US-09-202-464-4

Perfect score: 112

Sequence: 1 DANWQNRKYLADCAVGFSGS 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 16740630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:
- 2: /cgn2\_6/ptodata/1/pubpaa/PTC\_NEW\_PUB.pep:
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:
- 6: /cgn2\_6/ptodata/1/pubpaa/PTCUS\_PUBCOMB.pep:
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:
- 10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:
- 13: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep:
- 14: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep:
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:
- 17: /cgn2\_6/ptodata/1/pubpaa/US10C\_NEW\_PUB.pep:
- 18: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
1	112	100.0	375	11	US-09-847-208 58	Sequence 58, Appl
2	109	97.3	367	11	US-09-847-208 109	Sequence 109, Appl
3	105	93.8	346	11	US-09-847-208-67	Sequence 67, Appl
4	101	90.2	374	11	US-09-847-208-68	Sequence 68, Appl
5	79	70.5	15	12	US-10-354-240 18	Sequence 18, Appl
6	75	67.0	15	12	US-10-354-240 17	Sequence 17, Appl
7	68	60.7	396	11	US-09-847-208 13	Sequence 13, Appl
8	65	58.0	397	11	US-09-847-208 15	Sequence 15, Appl
9	62	55.4	392	11	US-09-847-208 16	Sequence 16, Appl
10	61	54.5	398	11	US-09-847-208 14	Sequence 14, Appl
11	56	50.0	397	11	US-09-847-208 17	Sequence 17, Appl
12	53	47.3	15	12	US-10-354-240-19	Sequence 19, Appl
13	48	42.9	15	12	US-10-354-240-16	Sequence 16, Appl
14	46	41.1	197	12	US-10-176-920 212	Sequence 212, Appl
15	46	41.1	197	12	US-10-176-920 212	Sequence 212, Appl

16	46	41.1	197	12	US-10-194-457-212	Sequence 212, App
17	46	41.1	197	12	US-10-184-642-212	Sequence 212, App
18	46	41.1	197	12	US-10-196-747-212	Sequence 212, App
19	46	41.1	197	12	US-10-173-689-212	Sequence 212, App
20	46	41.1	197	12	US-10-173-690-212	Sequence 212, App
21	46	41.1	197	12	US-10-173-691-212	Sequence 212, App
22	46	41.1	197	12	US-10-173-692-212	Sequence 212, App
23	46	41.1	197	12	US-10-173-693-212	Sequence 212, App
24	46	41.1	197	12	US-10-173-694-212	Sequence 212, App
25	46	41.1	197	12	US-10-173-695-212	Sequence 212, App
26	46	41.1	197	12	US-10-173-707-212	Sequence 212, App
27	46	41.1	197	12	US-10-174-569-212	Sequence 212, App
28	46	41.1	197	12	US-10-174-583-212	Sequence 212, App
29	46	41.1	197	12	US-10-174-587-212	Sequence 212, App
30	46	41.1	197	12	US-10-174-589-212	Sequence 212, App
31	46	41.1	197	12	US-10-174-591-212	Sequence 212, App
32	46	41.1	197	12	US-10-175-736-212	Sequence 212, App
33	46	41.1	197	12	US-10-175-742-212	Sequence 212, App
34	46	41.1	197	12	US-10-175-744-212	Sequence 212, App
35	46	41.1	197	12	US-10-175-745-212	Sequence 212, App
36	46	41.1	197	12	US-10-175-748-212	Sequence 212, App
37	46	41.1	197	12	US-10-175-751-212	Sequence 212, App
38	46	41.1	197	12	US-10-175-754-212	Sequence 212, App
39	46	41.1	197	12	US-10-176-460-212	Sequence 212, App
40	46	41.1	197	12	US-10-176-489-212	Sequence 212, App
41	46	41.1	197	12	US-10-176-754-212	Sequence 212, App
42	46	41.1	197	12	US-10-176-755-212	Sequence 212, App
43	46	41.1	197	12	US-10-176-759-212	Sequence 212, App
44	46	41.1	197	12	US-10-176-920-212	Sequence 212, App
45	46	41.1	197	12	US-10-176-922-212	Sequence 212, App

ALIGNMENTS

RESULT :  
US-09-847-208-58  
; Sequence 58, Application US/09847208  
; Publication No. US2001038295A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; FILE REFERENCE: US67,002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-31  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 58  
; LENGTH: 375  
; TYPE: PPT  
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)  
US-09-847-208-58

Query Match 100.0% Score 112, DB 11; Length 375;  
Best Local Similarity 100.0%; Pred. No. 1, 7e-10;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DANWQNRKYLADCAVGFSGS 20  
|||||  
DB 32 DANWQNRKYLADCAVGFSGS 51

RESULT 2  
US-09-847-208-109  
; Sequence 109, Application US/09847208  
; Publication No. US2001038295A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng

;; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
;; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
;; FILE REFERENCE: UC67.002A  
;; CURRENT APPLICATION NUMBER: US/09/847,208  
;; CURRENT FILING DATE: 2001-05-01  
;; NUMBER OF SEQ ID NOS: 177  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 109  
;; LENGTH: 367  
;; TYPE: PRT  
;; ORGANISM: *Aspergillus ashei* (Ozark white ocellar)  
US-09-847-208-109

Query Match 97.3%; Score 109; DB 11; Length 367;  
Best Local Similarity 95.0%; Pred. No. 5.3e-10;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DANWQNRMKLADCAVGFSS 20  
Db 32 DSNWQNRMKLADCAVGFSS 51  
|||||

RESULT 3

;; Sequence 67, Application US/39847208  
;; Publication No. US20030082190A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Saxon, Andrew  
;; APPLICANT: Zhang, Ke  
;; APPLICANT: Zhu, Daocheng  
;; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
;; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
;; FILE REFERENCE: UC67.002A  
;; CURRENT APPLICATION NUMBER: US/09/847,208  
;; CURRENT FILING DATE: 2001-05-01  
;; NUMBER OF SEQ ID NOS: 177  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 67  
;; LENGTH: 346  
;; TYPE: PRT  
;; ORGANISM: *Cryptosporidium parvum*  
US-09-847-208-67

Query Match 93.8%; Score 105; DB 11; Length 346;  
Best Local Similarity 90.0%; Pred. No. 2.3e-09;  
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DANWQNRMKLADCAVGFSS 20  
Db 32 DSNWQNRMKLADCAVGFSS 30  
|||||

RESULT 4

;; Sequence 68, Application US/39847208  
;; Publication No. US20030082190A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Saxon, Andrew  
;; APPLICANT: Zhang, Ke  
;; APPLICANT: Zhu, Daocheng  
;; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
;; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
;; FILE REFERENCE: UC67.002A  
;; CURRENT APPLICATION NUMBER: US/09/847,208  
;; CURRENT FILING DATE: 2001-05-01  
;; NUMBER OF SEQ ID NOS: 177  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 68  
;; LENGTH: 374  
;; TYPE: PRT  
;; ORGANISM: *Cryptosporidium parvum* (Japanese cedar)  
US-09-847-208-68

Query Match 90.2%; Score 101; DB 11; Length 374;  
Best Local Similarity 90.0%; Pred. No. 1.2e-08;  
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DANWQNRMKLADCAVGFSS 20  
Db 32 DSNWQNRMKLADCAVGFSS 51  
|||||

RESULT 5

;; Sequence 18, Application US/10154240  
;; Publication No. US2003018547A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Sone, Toshio  
;; APPLICANT: Kume, Akimori  
;; APPLICANT: Dairiki, Kazuo  
;; APPLICANT: Iwama, Akiko  
;; APPLICANT: Kino, Katsuke  
;; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis  
;; FILE REFERENCE: SPC-10301  
;; CURRENT APPLICATION NUMBER: US/10/354,240  
;; CURRENT FILING DATE: 2003-01-29  
;; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
;; PRIOR FILING DATE: 1997-03-10  
;; PRIOR APPLICATION NUMBER: US 09/142,524  
;; PRIOR FILING DATE: 1998-09-09  
;; NUMBER OF SEQ ID NOS: 174  
;; SOFTWARE: Patent in version 3.1  
;; SEQ ID NO 18  
;; LENGTH: 15  
;; TYPE: PRT  
;; ORGANISM: *Cryptosporidium parvum*  
;; NAME/KEY: NISC FEATURE  
;; LOCATION: (31,105)  
;; OTHER INFORMATION: Cyt1 peptide, Figure 1, Row 4  
US-10-354-240-18

Query Match 70.5%; Score 79; DB 12; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.6e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 QNPMKLADCAVGFSS 20  
Db 1 QNPMKLADCAVGFSS 15  
|||||

RESULT 6

;; Sequence 17, Application US/10154240  
;; Publication No. US2003018547A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Sone, Toshio  
;; APPLICANT: Kume, Akimori  
;; APPLICANT: Dairiki, Kazuo  
;; APPLICANT: Iwama, Akiko  
;; APPLICANT: Kino, Katsuke  
;; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
;; FILE REFERENCE: SPC-10301  
;; CURRENT APPLICATION NUMBER: US/10/354,240  
;; CURRENT FILING DATE: 2003-01-29  
;; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
;; PRIOR FILING DATE: 1997-03-10  
;; PRIOR APPLICATION NUMBER: US 09/142,524  
;; PRIOR FILING DATE: 1998-09-09  
;; NUMBER OF SEQ ID NOS: 174  
;; SOFTWARE: Patent in version 3.1  
;; SEQ ID NO 17  
;; LENGTH: 15  
;; TYPE: PRT  
;; ORGANISM: *Cryptosporidium parvum*  
;; FEATURE:

```

; NAME/KEY: MISC FEATURE
; LOCATION: (11)_(15)
; OTHER INFORMATION: Cys: peptide, Figure 1, Row 3
US-09-847-202-16
;
; Query Match: 67.0%; Score 75; DB 12; Length 15;
; Best Local Similarity: 86.7%; Pred. No. 0.041;
; Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
;
; QY 1 ANWQNRKMLADCAVGF 15
; DB 1 USNAQNRKMLADCA 15
;
; RESULT 9
; US-09-847-202-16
; Sequence 16, Application US/09847208
; Publication No. US20010082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed);
; US-09-847-202-16
;
; Query Match 55.4%; Score 62; DB 11; Length 392;
; Best Local Similarity 64.7%; Pred. No. 0.041;
; Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
;
; QY 2 ANWQNRKMLADCAVGF 18
; DB 59 ADWNRKMLADCAQGF 75
;
; RESULT 10
; US-09-847-202-14
; Sequence 14, Application US/09847208
; Publication No. US20010082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed);
; US-09-847-202-14
;
; Query Match 54.5%; Score 61; DB 11; Length 396;
; Best Local Similarity 64.7%; Pred. No. 0.061;
; Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;
;
; QY 2 ANWQNRKMLADCAVGF 18
; DB 60 ADWNRKMLADCAQGF 76
;
; RESULT 11
; US-09-847-202-17
; Sequence 17, Application US/09847208
; Publication No. US20010082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
;
; NAME/KEY: MISC FEATURE
; LOCATION: (11)_(15)
; OTHER INFORMATION: Cys: peptide, Figure 1, Row 3
US-09-847-202-17
;
; Query Match: 58.0%; Score 65; DB 11; Length 397;
; Best Local Similarity 64.7%; Pred. No. 0.041;
; Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
;
; QY 2 ANWQNRKMLADCAVGF 19
; DB 59 ADWNRKMLADCAQGF 75
;
; RESULT 12
; US-09-847-202-13
; Sequence 13, Application US/09847208
; Publication No. US20010082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed);
; US-09-847-202-13
;
; Query Match 60.7%; Score 68; DB 11; Length 396;
; Best Local Similarity 66.7%; Pred. No. 0.041;
; Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
;
; QY 2 ANWQNRKMLADCAVGF 19
; DB 58 ADWNRKMLADCAQGF 75
;
; RESULT 13
; US-09-847-202-15
; Sequence 15, Application US/09847208
; Publication No. US20010082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed);
; US-09-847-202-15
;
; Query Match 58.0%; Score 65; DB 11; Length 397;
; Best Local Similarity 64.7%; Pred. No. 0.041;
; Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
;
; QY 2 ANWQNRKMLADCAVGF 19
; DB 59 ADWNRKMLADCAQGF 75
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1 CURRENT FILING DATE: 2001-05-01  
2 NUMBER OF SEQ ID NOS: 177  
3 SOFTWARE: FastSeq for Windows Version 4.0  
4 SEQ ID NO 17  
5 LENGTH: 197  
6 TYPE: PPT  
7 ORGANISM: Ambrosia attenuatafolia (Short ragweed)  
8 US 09-847 208 17

Query Match 50.0% Score 55; LB 12; Length 197  
Best Local Similarity 52.9% Pred. No. 0 41  
Matches 3; Conservative 3; Mismatches 5; Indels 0; Gaps 0

QY 3 NWQONRKKLADCAVFGS 19  
||| |  
CB 40 QWAEHQALGNCAQVFG 76

RESULT 12  
US-10-354 240 19  
1 Sequence 19, Application US/10354240  
2 Publication No. US20030185847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Sone, Toshio  
5 APPLICANT: Kume, Akimori  
6 APPLICANT: Catraka, Kazuo  
7 APPLICANT: Iwama, Akiko  
8 APPLICANT: Kino, Ahsuke  
9 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
10 FILE REFERENCE: SPO-103D1  
11 CURRENT APPLICATION NUMBER: US/10354240  
12 CURRENT FILING DATE: 2003-05-29  
13 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
14 PRIOR FILING DATE: 1997-03-10  
15 PRIOR APPLICATION NUMBER: US 09/142,524  
16 PRIOR FILING DATE: 1998-09-09  
17 NUMBER OF SEQ ID NOS: 174  
18 SOFTWARE: Patent In version 3.1  
19 SEQ ID NO 19  
20 LENGTH: 15  
21 TYPE: PPT  
22 ORGANISM: Cryptomeria japonica  
23 FEATURE:  
24 NAME/KEY: MISC FEATURE  
25 LOCATION: 11..115  
26 OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 5  
27 US 10-354-240-19

Query Match 47.3% Score 57; LB 12; Length 197  
Best Local Similarity 100.0% Pred. No. 0 40  
Matches 10; Conservative 0; Mismatches 9; Indels 0; Gaps 0

QY 11 LADCAVFGS 20  
||| |  
CB 1 LADCAVFGS 10

RESULT 13  
US-10-354 240 16  
1 Sequence 16, Application US/10354240  
2 Publication No. US20030185847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Sone, Toshio  
5 APPLICANT: Kume, Akimori  
6 APPLICANT: Catraka, Kazuo  
7 APPLICANT: Iwama, Akiko  
8 APPLICANT: Kino, Ahsuke  
9 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
10 FILE REFERENCE: SPO-103D1  
11 CURRENT APPLICATION NUMBER: US/10354240  
12 CURRENT FILING DATE: 2003-05-29  
13 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
14 PRIOR FILING DATE: 1997-03-10

1 PRIOR APPLICATION NUMBER: US 09/142,524  
2 PRIOR FILING DATE: 1998-09-09  
3 NUMBER OF SEQ ID NOS: 174  
4 SOFTWARE: Patent In version 3.1  
5 SEQ ID NO 16  
6 LENGTH: 15  
7 TYPE: PPT  
8 ORGANISM: Cryptomeria japonica  
9 FEATURE:  
10 NAME/KEY: MISC FEATURE  
11 LOCATION: 11..115  
12 OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 2  
13 US 10-354 240 16

Query Match 40.0% Score 48; LB 12; Length 15  
Best Local Similarity 40.0% Pred. No. 0 24  
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0

QY 1 DANWQENMK 10  
||| |  
CB 6 CSWQENMK 15

RESULT 14  
US-10-199-672-212  
1 Sequence 212, Application US/0199672  
2 Publication No. US20030148412A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Baker, Kevin P.  
5 APPLICANT: Chen, Jian  
6 APPLICANT: Desrochers, Doug  
7 APPLICANT: Gaddard, Audrey  
8 APPLICANT: Godewski, Paul C.  
9 APPLICANT: Gurney, Austin L.  
10 APPLICANT: Pan, James  
11 APPLICANT: Smith, Victoria  
12 APPLICANT: Watanabe, Colin K.  
13 APPLICANT: Wood, William L.  
14 APPLICANT: Zhang, Zhen  
15 TITLE OF INVENTION: SPINNETED AND TRANSMEMBRANE POLYPEPTIDES AND METHODS  
16 FILE REFERENCE: P1430R1C1  
17 CURRENT APPLICATION NUMBER: US/0199672  
18 CURRENT FILING DATE: 2003-07-19  
19 PRIOR APPLICATION NUMBER: US/0052586  
20 PRIOR FILING DATE: 2002-01-15  
21 PRIOR APPLICATION NUMBER: 60/054561  
22 PRIOR FILING DATE: 1997-09-18  
23 PRIOR APPLICATION NUMBER: 60/054560  
24 PRIOR FILING DATE: 1997-09-18  
25 PRIOR APPLICATION NUMBER: 60/062260  
26 PRIOR FILING DATE: 1997-10-17  
27 PRIOR APPLICATION NUMBER: 60/064100  
28 PRIOR FILING DATE: 1997-10-24  
29 PRIOR APPLICATION NUMBER: 60/064121  
30 PRIOR FILING DATE: 1997-10-24  
31 PRIOR APPLICATION NUMBER: 60/064484  
32 PRIOR FILING DATE: 1997-10-21  
33 PRIOR APPLICATION NUMBER: 60/064547  
34 PRIOR FILING DATE: 1997-10-28  
35 PRIOR APPLICATION NUMBER: 60/064541  
36 PRIOR FILING DATE: 1997-10-28  
37 PRIOR APPLICATION NUMBER: 60/064544  
38 PRIOR FILING DATE: 1997-10-28  
39 Remaining Prior Application Data removed - See File Wrapper or PAM.  
40 NUMBER OF SEQ ID NOS: 612  
41 SEQ ID NO 212  
42 LENGTH: 197  
43 TYPE: EST  
44 ORGANISM: Homo Sapiens  
45 US-10-199-672-212

Query Match 41.0% Score 40; LB 12; Length 197



Best Local Similarity 58.8%; Pred. No. 8.9;  
Matches 10; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

CY 2 ANWQNRMKJADCAVGF 18  
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DE 34 ANWSONRTPCAGGAVEF 50

RESULT 15  
US-10-187-749-212  
? Sequence PIR, Application US/10187749  
? Publication No. US20030153036A;  
? GENERAL INFORMATION:  
? APPLICANT: Baker, Kevin P.  
? APPLICANT: Chen, Jian  
? APPLICANT: Desnoyers, Luc  
? APPLICANT: Goddard, Audrey  
? APPLICANT: Godowski, Paul J.  
? APPLICANT: Gurev, Austin L.  
? APPLICANT: Pan, James  
? APPLICANT: Smith, Victoria  
? APPLICANT: Watanabe, Colin K.  
? APPLICANT: Wood, William J.  
? APPLICANT: Zhang, Zelin  
? TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
? FILE REFERENCE: P4430RIC1  
? CURRENT APPLICATION NUMBER: US/10/187,749  
? CURRENT FILING DATE: 2002-07-01  
? PRIOR APPLICATION NUMBER: US/10/052,586  
? PRIOR FILING DATE: 2002-01-15  
? PRIOR APPLICATION NUMBER: 60/059264  
? PRIOR FILING DATE: 1997-09-18  
? PRIOR APPLICATION NUMBER: 60/059266  
? PRIOR FILING DATE: 1997-09-18  
? PRIOR APPLICATION NUMBER: 60/062250  
? PRIOR FILING DATE: 1997-10-17  
? PRIOR APPLICATION NUMBER: 60/063120  
? PRIOR FILING DATE: 1997-10-24  
? PRIOR APPLICATION NUMBER: 60/063121  
? PRIOR FILING DATE: 1997-10-24  
? PRIOR APPLICATION NUMBER: 60/063486  
? PRIOR FILING DATE: 1997-10-21  
? PRIOR APPLICATION NUMBER: 60/063540  
? PRIOR FILING DATE: 1997-10-28  
? PRIOR APPLICATION NUMBER: 60/063541  
? PRIOR FILING DATE: 1997-10-28  
? PRIOR APPLICATION NUMBER: 60/063544  
? PRIOR FILING DATE: 1997-10-28  
? Remaining Prior Application data removed See file Wrapper of: PALM.  
? NUMBER OF SEQ ID NOS: 612  
? SEQ ID NO 212  
? LENGTH: 197  
? TYPE: PRT  
? ORGANISM: Homo Sapien  
US-10-187-749-212

Query Match 41.1%; Score 46; DB 12; Length 197;  
Best Local Similarity 58.8%; Pred. No. 8.9;  
Matches 10; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

CY 2 ANWQNRMKJADCAVGF 18  
||| . . . |||  
DB 34 ANWSONRTPCAGGAVEF 50

Search completed: October 23, 2003, 11:01:35  
Job time : 21.75 secs

GenCore version 5.1.6  
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CM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11:4 Seconds

without alignments:  
74,230 Million: 601 updates/sec

Title: US-09-202-464-4

Perfect score: 112

Sequence: : DANWDQRMKLAICAVGPGS 23

Scoring table: BLASTM62

Gapop 10.0 , Gapext 0.5

Sequences: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:

- 1: /cgn2\_6/ptodata/2/1aa/5A\_COMB pep.\*
- 2: /cgn2\_6/ptodata/2/1aa/5B\_COMB pep.\*
- 3: /cgn2\_6/ptodata/2/1aa/6A\_COMB pep.\*
- 4: /cgn2\_6/ptodata/2/1aa/6B\_COMB pep.\*
- 5: /cgn2\_6/ptodata/2/1aa/PTJUS\_CGMs pep.\*
- 6: /cgn2\_6/ptodata/2/1aa/backfiles pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109	97.3	367	3	US-08-457-023-95 Sequence 95, Appl
2	102	91.1	370	3	US-08-457-023-97 Sequence 97, Appl
3	101	90.2	20	3	US-08-457-023-27 Sequence 27, Appl
4	101	90.2	50	3	US-08-457-023-56 Sequence 60, Appl
5	101	90.2	60	3	US-08-457-023-61 Sequence 61, Appl
6	101	90.2	374	3	US-08-457-023-2 Sequence 2, Appl
7	68	60.7	33	1	US-08-290-448A-5 Sequence 5, Appl
8	68	60.7	33	1	US-08-290-448A-5 Sequence 5, Appl
9	68	60.7	33	1	US-08-175-069A-5 Sequence 5, Appl
10	68	60.7	33	4	US-08-461-939B-5 Sequence 5, Appl
11	68	60.7	33	4	US-08-464-000-5 Sequence 5, Appl
12	68	60.7	48	1	US-08-290-448A-4 Sequence 4, Appl
13	68	60.7	48	1	US-08-290-448A-7 Sequence 7, Appl
14	68	60.7	48	1	US-08-290-448A-4 Sequence 4, Appl
15	68	60.7	48	1	US-08-290-448A-7 Sequence 7, Appl
16	68	60.7	48	1	US-08-175-069A-4 Sequence 4, Appl
17	68	60.7	48	1	US-08-175-069A-7 Sequence 7, Appl
18	68	60.7	48	4	US-08-461-939B-4 Sequence 4, Appl
19	68	60.7	48	4	US-08-461-939B-7 Sequence 7, Appl
20	68	60.7	48	4	US-08-464-000-4 Sequence 4, Appl
21	68	60.7	48	4	US-08-464-000-7 Sequence 7, Appl
22	68	60.7	387	1	US-08-290-448A-72 Sequence 72, Appl
23	68	60.7	387	1	US-08-290-448A-72 Sequence 72, Appl
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26	68	60.7	387	4	US-08-464-000-72 Sequence 72, Appl
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28	65	58.0	397	1	US-08-290-448A-76 Sequence 76, Appl
29	65	58.0	397	1	US-08-175-069A-76 Sequence 76, Appl
30	65	58.0	397	4	US-08-461-939B-76 Sequence 76, Appl
31	65	58.0	397	4	US-08-464-000-76 Sequence 6, Appl
32	62	55.4	33	1	US-08-290-448A-6 Sequence 6, Appl
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35	62	55.4	33	4	US-08-461-939B-6 Sequence 6, Appl
36	62	55.4	33	4	US-08-464-000-6 Sequence 6, Appl
37	62	55.4	393	1	US-08-290-448A-78 Sequence 78, Appl
38	62	55.4	393	1	US-08-290-448A-78 Sequence 78, Appl
39	62	55.4	393	4	US-08-175-069A-78 Sequence 78, Appl
40	62	55.4	393	4	US-08-461-939B-78 Sequence 78, Appl
41	62	55.4	393	4	US-08-464-000-78 Sequence 78, Appl
42	61	54.5	398	1	US-08-290-448A-80 Sequence 80, Appl
43	61	54.5	398	1	US-08-290-448A-80 Sequence 80, Appl
44	61	54.5	398	1	US-08-175-069A-80 Sequence 80, Appl
45	61	54.5	398	4	US-08-461-939B-80 Sequence 80, Appl

## ALIGNMENTS

### RESULT 1

US-08-467-023-95  
Sequence 95, Application US/08467023  
Patent No. 6092386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Coanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,972  
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-95

Query Match 97.3% Score 109; DB 3; Length 367;  
Best Local Similarity 95.0%; Pred. No. 4.4e-19;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DANWDQNRKMLADCAVGFSS 20  
||||| ||||| |||||  
Db 32 DSNWQNRKMLADCAVGFSS 51

## RESULT 2

US-08 467-023-97  
Sequence 97, Application US/08467023

Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Gorman, Richard D.;  
APPLICANT: Kuo, Wei-Chang;  
APPLICANT: Young, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.05  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467-023  
FILING DATE: June 6, 1995

## CLASSIFICATION: 424

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,972

REFERENCE/DOCKET NUMBER: 025.6 USOL IMI-0286CP02

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 97:

SEQUENCE CHARACTERISTICS:

LENGTH: 370 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08 467-023-97

Query Match 91.1% Score 120; DB 3; Length 370;  
Best Local Similarity 90.0%; Pred. No. 4.4e-19;  
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DANWDQNRKMLADCAVGFSS 20  
||||| ||||| |||||  
Db 32 DSNWQNRKMLADCAVGFSS 51

## RESULT 3

US-08 467-023-97  
Sequence 27, Application US/08467023

Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Gorman, Richard D.;  
APPLICANT: Kuo, Wei-Chang;  
APPLICANT: Young, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From

Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Gorman, Richard D.;  
APPLICANT: Kuo, Wei-Chang;  
APPLICANT: Young, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467-023  
FILING DATE: June 6, 1995

## CLASSIFICATION: 424

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,972

REFERENCE/DOCKET NUMBER: 025.6 USOL IMI-0286CP02

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: Peptide

FRAGMENT TYPE: Internal

US-08-467-023-97

Query Match 10.4% Score 101; DB 3; Length 20;

Best Local Similarity 40.0%; Pred. No. 1.1e-10;

Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DANWDQNRKMLADCAVGFSS 20  
||| ||| ||| |||  
Db 32 DSNWQNRKMLADCAVGFSS 20

RESULT 4

US-08-467-023-97

Sequence 66, Application US/08467023

Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Gorman, Richard D;

APPLICANT: Kuo, Wei-Chang;

APPLICANT: Young, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

```

1 TITLE OF INVENTION: Japanese Cedar pollen
2 NUMBER OF SEQUENCES: 261
3 CORRESPONDENCE ADDRESS:
4 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
5 STREET: 610 Lincoln St
6 CITY: Waltham
7 STATE: MA
8 COUNTRY: USA
9 ZIP: 02154
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: Floppy disk
12 COMPUTER: IBM PC compatible
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14 SOFTWARE: PatentIn Release #1.0, Version #1.25
15 CURRENT APPLICATION DATA:
16 APPLICATION NUMBER: US/08/467,023
17 FILING DATE: June 6, 1995
18 CLASSIFICATION: 424
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: 08/350,225
21 FILING DATE: December 6, 1994
22 ATTORNEY/AGENT INFORMATION:
23 NAME: Jane E. Remillard
24 REGISTRATION NUMBER: 38,872
25 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI 025CP02)
26 TELECOMMUNICATION INFORMATION:
27 TELEPHONE: (617) 227-7400
28 TELEFAX: (617) 227-5941
29 INFORMATION FOR SEQ ID NO: 66:
30 SEQUENCE CHARACTERISTICS:
31 LENGTH: 50 amino acids
32 TYPE: amino acid
33 TOPOLOGY: linear
34 MOLECULE TYPE: peptide
35 FRAGMENT TYPE: internal
36 US 08-467-023-66
37
38 Query Match 90.2% Score 101: US 1: Length 50:
39 Best Local Similarity 90.0% Pred. No. 4.8e-16:
40 Matches 15: Conservative 1: Mismatches 1: Indels 0: Gaps 0:
41
42 QY 1 DANWQNRMKLADCAVGFSG 20
43 | | | | | | | | | | | | | | | | | |
44 DB 21 DSNWAQNRMKLADCAVGFSG 40
45
46 RESULT 6
47 US-08-467-023-66
48 Sequence 61, Application US/08467023
49 Patent No. 6090386
50 GENERAL INFORMATION:
51 APPLICANT: Griffith, Irwin J.
52 APPLICANT: Pollock, Joanne
53 APPLICANT: Bond, Julian P.
54 APPLICANT: Garman, Richard D.
55 APPLICANT: Kuo, Mei-Chang
56 APPLICANT: Yeung, Siu-mei H.
57 APPLICANT: Brauer, Andrew
58 APPLICANT: Exley, Mark A.
59 APPLICANT: Powers, Steven P.
60 TITLE OF INVENTION: Allergenic Proteins And Peptides From
61 TITLE OF INVENTION: Japanese Cedar Pollen
62 NUMBER OF SEQUENCES: 261
63 CORRESPONDENCE ADDRESS:
64 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
65 STREET: 610 Lincoln St
66 CITY: Waltham
67 STATE: MA
68 COUNTRY: USA
69 ZIP: 02154
70 COMPUTER READABLE FORM:
71 MEDIUM TYPE: Floppy disk
72 COMPUTER: IBM PC compatible
73 OPERATING SYSTEM: PC-DOS/MS-DOS
74 SOFTWARE: PatentIn Release #1.0, Version #1.25
75 CURRENT APPLICATION DATA:
76 APPLICATION NUMBER: US/08/467,023
77 FILING DATE: June 6, 1995
78 CLASSIFICATION: 424
79 PRIOR APPLICATION DATA:
80 APPLICATION NUMBER: 08/350,225
81 FILING DATE: December 6, 1994
82 ATTORNEY/AGENT INFORMATION:
83 NAME: Jane E. Remillard
84 REGISTRATION NUMBER: 38,872
85

```

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1 OPERATING SYSTEM: PC-DOS/MS-DOS
2 SOFTWARE: PatentIn Release #1.0, Version #1.25
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: US/08/467,023
5 FILING DATE: June 6, 1995
6 CLASSIFICATION: 424
7 PRIOR APPLICATION DATA:
8 APPLICATION NUMBER: 08/350,225
9 FILING DATE: December 6, 1994
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Jane E. Remillard
12 REGISTRATION NUMBER: 38,872
13 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CP02)
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (617) 227-7400
16 TELEFAX: (617) 227-5941
17 INFORMATION FOR SEQ ID NO: 61:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 62 amino acids
20 TYPE: amino acid
21 TOPOLOGY: linear
22 MOLECULE TYPE: peptide
23 FRAGMENT TYPE: internal
24 US-08-467-023-61
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26 Query Match 90.2% Score 101: DB 3: Length 60:
27 Best Local Similarity 90.0% Pred. No. 1.2e-09:
28 Matches 19: Conservative 1: Mismatches 1: Indels 0: Gaps 0:
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30 QY 1 DANWQNRMKLADCAVGFSG 20
31 | | | | | | | | | | | | | | | | | |
32 DB 21 DSNWAQNRMKLADCAVGFSG 40
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34 RESULT 6
35 US-08-467-023-2
36 Sequence 2, Application US/08467023
37 Patent No. 6090386
38 GENERAL INFORMATION:
39 APPLICANT: Griffith, Irwin J.
40 APPLICANT: Pollock, Joanne
41 APPLICANT: Bond, Julian P.
42 APPLICANT: Garman, Richard D.
43 APPLICANT: Kuo, Mei-Chang
44 APPLICANT: Yeung, Siu-mei H.
45 APPLICANT: Brauer, Andrew
46 APPLICANT: Exley, Mark A.
47 APPLICANT: Powers, Steven P.
48 TITLE OF INVENTION: Allergenic Proteins And Peptides From
49 TITLE OF INVENTION: Japanese Cedar Pollen
50 NUMBER OF SEQUENCES: 261
51 CORRESPONDENCE ADDRESS:
52 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
53 STREET: 610 Lincoln St
54 CITY: Waltham
55 STATE: MA
56 COUNTRY: USA
57 ZIP: 02154
58 COMPUTER READABLE FORM:
59 MEDIUM TYPE: Floppy disk
60 COMPUTER: IBM PC compatible
61 OPERATING SYSTEM: PC-DOS/MS-DOS
62 SOFTWARE: PatentIn Release #1.0, Version #1.25
63 CURRENT APPLICATION DATA:
64 APPLICATION NUMBER: US/08/467,023
65 FILING DATE: June 6, 1995
66 CLASSIFICATION: 424
67 PRIOR APPLICATION DATA:
68 APPLICATION NUMBER: 08/350,225
69 FILING DATE: December 6, 1994
70 ATTORNEY/AGENT INFORMATION:
71 NAME: Jane E. Remillard
72 REGISTRATION NUMBER: 38,872

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1 REFERENCE/DOCKET NUMBER: 025-6 US02 444A 444A
2 TELECOMMUNICATION INFORMATION:
3 TELEPHONE: 6171 227-7400
4 TELEFAX: 6171 227-5941
5 INFORMATION FOR SEQ ID NO: 2:
6 SEQUENCE CHARACTERISTICS:
7 LENGTH: 374 amino acids
8 TYPE: amino acid
9 TOPOLOGY: linear
10 MOLECULE TYPE: protein
11 US 09-467 973 2
12
13 Query Match: 90.23, Score 101, IP 1, Length 374,
14 Best Local Similarity: 90.08, Pred No 0.000166
15 Matches: 18, Conservative 17, Mismatches 1, Indels 0, Gaps 0
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1 STREET: 60 State Street
2 CITY: Boston
3 STATE: Massachusetts
4 COUNTRY: USA
5 ZIP: 02109-1875
6 COMPUTER READABLE FORM:
7 MEDIUM TYPE: Floppy disk
8 COMPUTER: IBM PC compatible
9 OPERATING SYSTEM: PC-DOS/MS-DOS
10 SOFTWARE: Patent In Release #1.0, Version #1.25
11 CURRENT APPLICATION DATA:
12 APPLICATION NUMBER: US/08/175-069A
13 FILING DATE: December 29, 1993
14 PRIOR APPLICATION DATA:
15 APPLICATION NUMBER: US 07/529,951
16 FILING DATE: May 29, 1990
17 APPLICATION NUMBER: US 07/325,365
18 FILING DATE: March 17, 1989
19 ATTORNEY/AGENT INFORMATION:
20 NAME: Amy E. Mandragouras
21 REGISTRATION NUMBER: 36,207
22 REFERENCE/DOCKET NUMBER: IM1-0180V
23 TELECOMMUNICATION INFORMATION:
24 TELEPHONE: (617)227-7400
25 TELEFAX: (617)227-5941
26 INFORMATION FOR SEQ ID NO: 5:
27 SEQUENCE CHARACTERISTICS:
28 LENGTH: 33 amino acids
29 TYPE: amino acid
30 TOPOLOGY: linear
31 MOLECULE TYPE: peptide
32 FRAGMENT TYPE: interna.
33 US-08-175-069A-5

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Query Match 60.7% Score 68; DB 1; Length 33;

Best Local Similarity 66.7% Pred. No. 0.00016;

Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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QY 2 ANWDQNRKMLADCAVGF 19
Db 16 ADWAENRKALADCAQGF 33

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RESULT 10

US-08-461-939B-5

Sequence 5, Application US/08461939B

Patent No. 6335019

GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Methods For Treating Sensitivity To A

TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 28 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/461,939B

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/464,000

FILING DATE: 05-JUN-1995

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1 APPLICATION NUMBER: US 08/290,448
2 FILING DATE: 15-AUG-1994
3 APPLICATION NUMBER: US 07/529,951
4 FILING DATE: 29-MAY-1990
5 APPLICATION NUMBER: US 07/325,365
6 FILING DATE: 17-MAR-1989
7 ATTORNEY/AGENT INFORMATION:
8 NAME: Amy E. Mandragouras
9 REGISTRATION NUMBER: 36,207
10 REFERENCE/DOCKET NUMBER: IM1-0180V
11 TELECOMMUNICATION INFORMATION:
12 TELEPHONE: (617)227-7400
13 TELEFAX: (617)743-4214
14 INFORMATION FOR SEQ ID NO: 5:
15 SEQUENCE CHARACTERISTICS:
16 LENGTH: 33 amino acids
17 TYPE: amino acid
18 TOPOLOGY: linear
19 MOLECULE TYPE: peptide
20 FRAGMENT TYPE: interna.
21 US-08-461-939B-5

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Query Match 60.7% Score 68; DB 4; Length 33;

Best Local Similarity 66.7% Pred. No. 0.00016;

Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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QY 2 ANWDQNRKMLADCAVGF 19
Db 16 ADWAENRKALADCAQGF 33

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RESULT 11

US-08-464-000-5

Sequence 5, Application US/08464000

Patent No. 6335020

GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Antigenic Peptides from Ragweed Pollen

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 60 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/464,000

FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/290,448

FILING DATE: 15-AUG-1994

APPLICATION NUMBER: US 07/529,951

FILING DATE: 29-MAY-1990

APPLICATION NUMBER: US 07/325,365

FILING DATE: 17-MAR-1989

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragouras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IM1-0180V

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

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; LENGTH: 33 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-464-000-5

Query Match 60.7%; Score 68; DB 4; Length 33;
Best Local Similarity 66.7%; Pred. No. 0.00025;
Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 ANWQNRMKLADCAQGG 19
Db 16 ADWAENRKALADCAQGG 33

RESULT 12
US-08-290-448A-4
; Sequence 4, Application US/08290448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Wei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290-448A
; FILING DATE: August 15, 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: 1M; 0180N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FRAGMENT TYPE: internal
US-08-290-448A-7

Query Match 60.7%; Score 68; DB 1; Length 48;
Best Local Similarity 66.7%; Pred. No. 0.00025;
Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 ANWQNRMKLADCAQGG 19
Db 16 ADWAENRKALADCAQGG 33

RESULT 14
US-08-290-448A-4
; Sequence 4, Application US/08290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Wei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290-448A
; FILING DATE: August 15, 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: 1M; 0180N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-290-448A-4

Query Match 60.7%; Score 68; DB 1; Length 48;
Best Local Similarity 66.7%; Pred. No. 0.00025;
Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 ANWQNRMKLADCAQGG 19
Db 16 ADWAENRKALADCAQGG 33

RESULT 13
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US-08-290-448A-7
; Sequence 7, Application US/08290448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Wei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290-448A
; FILING DATE: August 15, 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: 1M; 0180N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FRAGMENT TYPE: internal
US-08-290-448A-7

Query Match 60.7%; Score 68; DB 1; Length 48;
Best Local Similarity 66.7%; Pred. No. 0.00025;
Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 ANWQNRMKLADCAQGG 19
Db 16 ADWAENRKALADCAQGG 33

RESULT 14
US-08-290-448A-4
; Sequence 4, Application US/08290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Wei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-4

Query Match 60.7% Score 68; DP 1; Length 48;
Best Local Similarity 66.7%; Pred. No. 0.00025;
Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 ANWQNRMYKLADCAVGGF 19
DE 16 ADWAENRKALADCAQGGF 33

RESULT 15
US-08-290-448A-7
Sequence 7, Application US/08290448A
Patent No. 5654204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Wei-chang
TITLE OF INVENTION: Allergenic Proteins From Rayworts and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 110
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/290,448A
FILING DATE: August 15, 1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN

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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-7

Query Match 60.7% Score 68; DP 1; Length 48;
Best Local Similarity 66.7%; Pred. No. 0.00025;
Matches 12; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 ANWQNRMYKLADCAVGGF 19
DE 16 ADWAENRKALADCAQGGF 33

Search completed: October 23, 2003, 09:55:18
Job time : 12.4 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw mode

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 seconds  
without alignments  
169,590 Million cell updates/sec

Title: US-09-202-464-6

Perfect score: 106

Sequence: 1 SAMGKGGAFYTVTSSDDUP 10

Scoring table: BLOSUM62

Gap: 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 67442

Minimum hit seq length: 0

Maximum hit seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: 1: /cgn2\_6/prodata/1/pubaa/us07\_PUBCWA.pep.  
2: /cgn2\_6/prodata/1/pubaa/US07\_NEW\_PUB.pep.  
3: /cgn2\_6/prodata/1/pubaa/US06\_NEW\_PUB.pep.  
4: /cgn2\_6/prodata/1/pubaa/US06\_PUBCWA.pep.  
5: /cgn2\_6/prodata/1/pubaa/US07\_NEW\_PUB.pep.  
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7: /cgn2\_6/prodata/1/pubaa/US06\_NEW\_PUB.pep.  
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10: /cgn2\_6/prodata/1/pubaa/US06\_PUBCWA.pep.  
11: /cgn2\_6/prodata/1/pubaa/US06\_PUBCWA.pep.  
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15: /cgn2\_6/prodata/1/pubaa/US06\_PUBCWA.pep.  
16: /cgn2\_6/prodata/1/pubaa/US06\_PUBCWA.pep.  
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18: /cgn2\_6/prodata/1/pubaa/US06\_PUBCWA.pep.

Note: No. is the number of results predicted by BLAST. No. is the number of results greater than or equal to the score of the best hit. Total number of hits is derived by analysis of the total number of hits.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	106	100%	375	11	US-09-847-209-59
2	89	83.0	367	11	US-09-847-209-59
3	87	82.1	374	11	US-09-847-209-59
4	82	77.4	346	11	US-09-847-209-59
5	65	62.3	15	12	US-10-354-240-21
6	58	54.7	15	12	US-10-354-240-21
7	44	50.9	392	11	US-09-847-209-59
8	54	50.9	392	11	US-09-847-209-59
9	54	50.9	392	11	US-09-847-209-59
10	52	49.1	397	11	US-09-847-209-59
11	51	48.1	15	12	US-10-354-240-21
12	50	47.2	397	11	US-09-847-209-59
13	46.5	43.9	136	12	US-10-336-530-14
14	45	42.5	413	11	US-09-847-209-59
15	45	42.5	413	12	US-09-847-209-59

16	45	42.5	806	9	US-09-847-209-59	Sequence 1117, App
17	45	42.5	806	9	US-09-847-209-59	Sequence 1118, App
18	45	42.5	806	14	US-10-354-240-21	Sequence 1117, App
19	45	42.5	806	14	US-10-354-240-21	Sequence 1118, App
20	44	41.5	871	9	US-09-847-209-59	Sequence 21, App
21	42	39.6	302	12	US-10-403-192-2	Sequence 2, App
22	42	39.6	302	12	US-10-403-192-2	Sequence 7, App
23	42	39.6	302	12	US-10-403-192-2	Sequence 8, App
24	42	39.6	341	14	US-10-372-152-4	Sequence 12, App
25	42	39.6	493	14	US-10-372-152-4	Sequence 12, App
26	42	39.6	1242	10	US-09-847-209-59	Sequence 5, App
27	42	39.6	1242	10	US-09-847-209-59	Sequence 5, App
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31	42	39.6	1242	10	US-09-847-209-59	Sequence 5, App
32	42	39.6	1242	10	US-09-847-209-59	Sequence 5, App
33	42	39.6	1242	10	US-09-847-209-59	Sequence 5, App
34	42	39.6	1434	15	US-10-065-505-9	Sequence 3, App
35	42	39.6	1516	15	US-10-065-505-9	Sequence 166, App
36	41.5	39.2	124	9	US-09-847-209-59	Sequence 41773, A
37	41.5	39.2	238	9	US-09-847-209-59	Sequence 27, App
38	41.5	39.2	238	9	US-09-847-209-59	Sequence 27, App
39	41.5	39.2	752	9	US-09-847-209-59	Sequence 61, App
40	41.5	39.2	752	9	US-09-847-209-59	Sequence 61, App
41	41	38.7	752	10	US-10-259-165-94	Sequence 94, App
42	41	38.7	752	10	US-10-259-165-94	Sequence 365, App
43	41	38.7	752	10	US-10-259-165-94	Sequence 62, App
44	41	38.7	752	10	US-10-259-165-94	Sequence 506, App
45	41	38.7	752	9	US-09-847-209-59	Sequence 177, App

## ALIGNMENTS

RESULT 1  
US-09-847-209-59  
; Sequence 58: Application US-09-847-209-59  
; Publication No: US200108191A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: US67,902A  
; CURRENT APPLICATION NUMBER: US/09/847,209  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO: 58  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-209-59

Query Match: 100.0% Score: 106.0 DB ID: 9  
Best Local Similarity: 100.0% Pred. No: 5,64-58;  
Matches: 100% Conservative 0, Mismatches 0, Indels 0, Gaps 0

QY 1 SAMGKGGAFYTVTSSDDUP 10  
DB 52 SAMGKGGAFYTVTSSDDUP 71

RESULT 2  
US-09-847-209-109  
; Sequence 162: Application US-09-847-209-109  
; Publication No: US200108191A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng

? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ? FILE REFERENCE: US67,002A  
 ? CURRENT APPLICATION NUMBER: US/09/847,208  
 ? CURRENT FILING DATE: 2001-05-01  
 ? NUMBER OF SEQ ID NOS: 177  
 ? SOFTWARE: FASTSEQ for Windows Version 4.0  
 ? SEQ ID NO 109  
 ? LENGTH: 167  
 ? TYPE: PRT  
 ? ORGANISM: Caniparus ashei (Ozark white owl)

US-09-847-208 109  
 Query Match 81.4% Score 88; DB 11; Length 362;  
 Best Local Similarity 80.8%; Pred. No. 2,940,561;  
 Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 SAMGKGAGFYTVTSSDDDP 20  
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DB 52 STMGGKGGDFYTVTSSDDNP 31

RESULT 5  
 ? Sequence 68, Application US/09847208  
 ? Publication No. US2003008219CA1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Saxon, Andrew  
 ? APPLICANT: Zhang, Ke  
 ? APPLICANT: Zhu, Daocheng  
 ? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ? FILE REFERENCE: US67,002A  
 ? CURRENT APPLICATION NUMBER: US/09/847,208  
 ? CURRENT FILING DATE: 2001-05-01  
 ? NUMBER OF SEQ ID NOS: 177  
 ? SOFTWARE: FastSEQ for Windows Version 4.0  
 ? SEQ ID NO 68  
 ? LENGTH: 174  
 ? TYPE: PRT  
 ? ORGANISM: Cryptosporidia japonica (Japanese cedar)

US-09-847-208 68  
 Query Match 82.1% Score 91; DB 11; Length 344;  
 Best Local Similarity 80.8%; Pred. No. 4,084,084;  
 Matches 16; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 SAMGKGAGFYTVTSSDDDP 20  
 ||||| ||||| |||||

DB 52 STMGGKGGDFYTVTSSDDNP 31

RESULT 4  
 ? Sequence 67, Application US/09847208  
 ? Publication No. US2003008219CA1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Saxon, Andrew  
 ? APPLICANT: Zhang, Ke  
 ? APPLICANT: Zhu, Daocheng  
 ? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ? FILE REFERENCE: US67,002A  
 ? CURRENT APPLICATION NUMBER: US/09/847,208  
 ? CURRENT FILING DATE: 2001-05-01  
 ? NUMBER OF SEQ ID NOS: 177  
 ? SOFTWARE: FastSEQ for Windows Version 4.0  
 ? SEQ ID NO 67  
 ? LENGTH: 146  
 ? TYPE: PRT  
 ? ORGANISM: Cupressus arizonica

US-09-847-208-67

Query Match 73.4% Score 80; DB 11; Length 346;  
 Best Local Similarity 75.8%; Pred. No. 3,000,021;  
 Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 SAMGKGAGFYTVTSSDDDP 20  
 ||||| ||||| |||||

DB 31 STMGGKGGDFYTVTSSDDNP 50

RESULT 5  
 ? Sequence 23, Application US/0154240  
 ? Publication No. US20030185847A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Sone, Toshio  
 ? APPLICANT: Kume, Akio  
 ? APPLICANT: Dairiki, Kazuo  
 ? APPLICANT: Iwama, Akiyo  
 ? APPLICANT: Kido, Kousuke  
 ? TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 ? FILE REFERENCE: SPO-133D1  
 ? CURRENT APPLICATION NUMBER: US/10/354,240  
 ? CURRENT FILING DATE: 2003-01-29  
 ? PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ? PRIOR FILING DATE: 1997-03-10  
 ? PRIOR APPLICATION NUMBER: US 09/142,524  
 ? PRIOR FILING DATE: 1998-09-09  
 ? NUMBER OF SEQ ID NOS: 174  
 ? SOFTWARE: PatentIn version 3.1  
 ? SEQ ID NO 22  
 ? LENGTH: 15  
 ? TYPE: PRT  
 ? ORGANISM: Cryptosporidia japonica  
 ? FEATURE:  
 ? NAME/KEY: MISC FEATURE  
 ? LOCATION: 11-15;  
 ? OTHER INFORMATION: Gly11 peptide, Figure 1, Row 5

US-10-354-240-22  
 Query Match 62.1% Score 66; DB 12; Length 15;  
 Best Local Similarity 65.8%; Pred. No. 3,0018;  
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 KGGDYTVTSSDDP 20  
 ||||| |||||

DB 1 KGGDYTVTSSDDP 15

RESULT 6  
 ? Sequence 21, Application US/1054240  
 ? Publication No. US20030185847A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Sone, Toshio  
 ? APPLICANT: Kume, Akio  
 ? APPLICANT: Dairiki, Kazuo  
 ? APPLICANT: Iwama, Akiyo  
 ? APPLICANT: Kido, Kousuke  
 ? TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 ? FILE REFERENCE: SPO-133D1  
 ? CURRENT APPLICATION NUMBER: US/10/354,240  
 ? CURRENT FILING DATE: 2003-01-29  
 ? PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ? PRIOR FILING DATE: 1997-03-10  
 ? PRIOR APPLICATION NUMBER: US 09/142,524  
 ? PRIOR FILING DATE: 1998-09-09  
 ? NUMBER OF SEQ ID NOS: 174  
 ? SOFTWARE: PatentIn version 3.1  
 ? SEQ ID NO 21  
 ? LENGTH: 15  
 ? TYPE: PRT  
 ? ORGANISM: Cryptosporidia japonica  
 ? FEATURE:

NAME/KEY: MISC FEATURE  
LOCATION: (1)-(25)  
OTHER INFORMATION: Cryst1 peptide, Figure 1, Row 7  
US-10-354-240-21

Query Match 54.7% Score 54; DB 12; Length 15;  
Best Local Similarity 73.3%; Pred. No. 0.028;  
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY : SAGKGGAFYVTSSDD 15  
DB : ||||| |||  
1 STYGGKGGELYVTIN 15

US-09-847-208-16

Sequence 16, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 16  
LENGTH: 392  
TYPE: PRT  
ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-16

Query Match 50.9% Score 54; DB 11; Length 392;  
Best Local Similarity 64.7%; Pred. No. 3.8;  
Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY : 3 VGGKGGAFYVTSSDD 19  
DB : ||||| |||  
90 IGGKGGD-YVTSELD 96

US-09-847-208-13

Sequence 13, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13  
LENGTH: 396  
TYPE: PRT  
ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-13

Query Match 50.9% Score 54; DB 11; Length 396;  
Best Local Similarity 64.7%; Pred. No. 3.8;  
Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY : 3 VGGKGGAFYVTSSDD 19  
DB : ||||| |||  
79 VGGKGGD-YVTSELD 95

RESULT 9

US-09-847-208-14  
Sequence 14, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 14  
LENGTH: 398  
TYPE: PRT  
ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-14

Query Match 50.9% Score 54; DB 11; Length 398;  
Best Local Similarity 68.8%; Pred. No. 3.9;  
Matches 11; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY : 4 GKGGAFTYVTSSDD 19  
DB : ||||| |||  
82 GKGHGDVYVTSKDD 97

RESULT 10

US-09-847-208-15  
Sequence 15, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 15  
LENGTH: 397  
TYPE: PRT  
ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-15

Query Match 49.1% Score 52; DB 11; Length 397;  
Best Local Similarity 68.8%; Pred. No. 7.7;  
Matches 11; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY : 4 GKGGAFTYVTSSDD 19  
DB : ||||| |||  
81 GKGHGDVYVTSKDD 96

RESULT 11

US-10-354-240-23  
Sequence 23, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akio  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kousuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
FILE REFERENCE: SPC-10301

; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; PRIOR FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent version 3.1  
 ; SEQ ID NO 23  
 ; LENGTH: 15  
 ; TYPE: PR  
 ; ORGANISM: Cryptosporidia japonica  
 ; FEATURES:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (1)...(15)  
 ; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 9  
 US 10 354 240 23

Query Match 48.18; Score 51; FR 12; Length 15;  
 Best Local Similarity 90.38; Pred. No. 0.11;  
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 11 YTVTSDDDP 20  
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 Db 1 YTVTNSDDP 10

RESULT 12  
 US-09-847-208 17  
 ; Sequence 17, Application US/99847208  
 ; Publication No. US20030082192A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxton, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: US67,002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 17  
 ; LENGTH: 107  
 ; TYPE: PRT  
 ; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US 09-847-208 17

Query Match 47.28; Score 50; FR 11; Length 107;  
 Best Local Similarity 62.58; Pred. No. 15;  
 Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 GKGAGFYTVTSSDD 19  
 ||| : ||||  
 Db 81 GKGAGCYVMVTSDD 96

RESULT 13  
 US-10 336-597 10  
 ; Sequence 10, Application US/10336597  
 ; Publication No. US20030150021A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KREBBERS, ENNO  
 ; BROGLIE, KAREN E.  
 ; PEARLSTEIN, RICHARD W.  
 ; TITLE OF INVENTION: PLANT 4-GLUCANOSYLTRANSFERASE  
 ; NUMBER OF SEQUENCES: 16  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: E. I. DUPONT DE NEMOURS AND COMPANY  
 ; STREET: 1007 MARKET STREET  
 ; CITY: WILMINGTON  
 ; STATE: DELAWARE  
 ; COUNTRY: UNITED STATES OF AMERICA

ZIP: 19898  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.50 INCH DISKETTE  
 COMPUTER: IBM PC COMPATIBLE  
 OPERATING SYSTEM: MICROSOFT WINDOWS 95  
 SOFTWARE: MICROSOFT WORD FOR WINDOWS 95 (VER. 7.0)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/336,597  
 ; FILING DATE: 03-04-2003  
 ; CLASSIFICATION: <UNKNOWN>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/401,332  
 ; FILING DATE: 19-03-1999  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: MAJARIAN, WILLIAM R.  
 ; REGISTRATION NUMBER: 41,173  
 ; REFERENCE/DOC# NUMBER: BB 1101 A  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 302 992-4926  
 ; TELEFAX: 302 773-0164  
 ; INFORMATION FOR SEQ ID NO: 10:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 136 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: <Unknown>  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; IMMEDIATE SOURCE:  
 ; CLONE: pIR6.pX0004.C9  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
 US-10-336-597 10

Query Match 43.98; Score 46.5; DB 12; Length 136;  
 Best Local Similarity 55.68; Pred. No. 16;  
 Matches 10; Conservative 2; Mismatches 5; Indels 1; Gaps 1;

QY 4 GKGAGFYTVTSSDDP 20  
 ||| : ||||  
 Db 58 GGRSRFYQTVIGSDDEP 75

RESULT 14  
 US-09-809-391 751  
 ; Sequence 751, Application US/09809391;  
 ; Publication No. US2003004961A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Puben et al.  
 ; TITLE OF INVENTION: 180 Human secreted proteins  
 ; FILE REFERENCE: PZ0202  
 ; CURRENT APPLICATION NUMBER: US/09/809,391  
 ; CURRENT FILING DATE: 2001-01-16  
 ; Prior application data removed - consult PALM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 761  
 ; SOFTWARE: Patent Ver. 2.0  
 ; SEQ ID NO 751  
 ; LENGTH: 413  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US 09-809-391 751

Query Match 42.68; Score 45; DB 11; Length 413;  
 Best Local Similarity 53.38; Pred. No. 90;  
 Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GKGAGFYTVTSSDD 18  
 ||| : ||||  
 Db 396 GGTSGSVYTEDNDD 410

RESULT 15  
 US-09-882-171 751  
 ; Sequence 751, Application US/09882171;  
 ; Publication No. US20030175859A1

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; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human. Secreted proteins
; FILE REFERENCE: P2002P2
; CURRENT APPLICATION NUMBER: US/09/882,171
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 09/809,391
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 09/149,476
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/04493
; PRIOR FILING DATE: 1998-03-06
; PRIOR APPLICATION NUMBER: 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,333
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/038,621
; PRIOR FILING DATE: 1997-03-07
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; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: 60/043,315
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: 60/048,974
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/056,896
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/056,877
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; PRIOR APPLICATION NUMBER: 60/047,595
; PRIOR FILING DATE: 1997-05-23

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6 PRIOR FILING DATE: 1997-05-23  
7 PRIOR APPLICATION NUMBER: 60/047,586  
8 PRIOR FILING DATE: 1997-05-23  
9 PRIOR APPLICATION NUMBER: 60/047,590  
10 PRIOR FILING DATE: 1997-05-23  
11 PRIOR APPLICATION NUMBER: 60/047,594  
12 PRIOR FILING DATE: 1997-05-23  
13 PRIOR APPLICATION NUMBER: 60/047,589  
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16 PRIOR FILING DATE: 1997-05-23  
17 PRIOR APPLICATION NUMBER: 60/047,614  
18 PRIOR FILING DATE: 1997-05-23  
19 PRIOR APPLICATION NUMBER: 60/043,578  
20 PRIOR FILING DATE: 1997-04-11  
21 PRIOR APPLICATION NUMBER: 60/043,576  
22 PRIOR FILING DATE: 1997-04-11  
23 PRIOR APPLICATION NUMBER: 60/047,501  
24 PRIOR FILING DATE: 1997-05-23  
25 PRIOR APPLICATION NUMBER: 60/043,670  
26 PRIOR FILING DATE: 1997-04-11  
27 PRIOR APPLICATION NUMBER: 60/056,632  
28 PRIOR FILING DATE: 1997-08-22  
29 PRIOR APPLICATION NUMBER: 60/056,664  
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33 PRIOR APPLICATION NUMBER: 60/056,881  
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43 PRIOR APPLICATION NUMBER: 60/056,908  
44 PRIOR FILING DATE: 1997-08-22  
45 PRIOR APPLICATION NUMBER: 60/048,964  
46 PRIOR FILING DATE: 1997-06-06  
47 PRIOR APPLICATION NUMBER: 60/057,650  
48 PRIOR FILING DATE: 1997-09-05  
49 PRIOR APPLICATION NUMBER: 60/056,884  
50 PRIOR FILING DATE: 1997-08-22  
51 PRIOR APPLICATION NUMBER: 60/057,669  
52 PRIOR FILING DATE: 1997-09-05

Query Vector: 42.58; Score: 45; 18 100 1000 410

Best Local Similarity: 53.38; Prod: Not set

Matches: 8; Conservative: 2; Mismatches: 5; Indels: 0; Gaps: 0

CY 4 GKGGAFTVTSDD 18

396 GTGGGSVTECDNDD 410

Search completed: October 23, 2003, 11:01:47  
Job time: 21.75 secs

GenCore version 5.1.6  
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ON protein protein search, using sw model

Run on: October 23, 2003, 09:42:19 : Search time 11.4 Seconds  
(without alignment)  
74,230 Million cell updates/sec

Title: US-09-202-464-6

Percent score: 106

Sequence: 1 SAMGKCGAFYTVSSDDP 26

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 325717 seqs, 42310838 residues

Total number of hits satisfying chosen parameters: 325717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents AA:  
1: /cgn2\_6/prodata/2/iaa/5A\_CXVB pep.\*  
2: /cgn2\_6/prodata/2/iaa/5B\_CXVB pep.\*  
3: /cgn2\_6/prodata/2/iaa/6A\_CXVB pep.\*  
4: /cgn2\_6/prodata/2/iaa/6B\_CXVB pep.\*  
5: /cgn2\_6/prodata/2/iaa/6CUTS COMB pep.\*  
6: /cgn2\_6/prodata/2/iaa/Backfiles pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	88	83.0	367	3	US-08-467-023-95
2	88	83.0	370	3	Sequence 95, Appl
3	87	82.1	20	3	Sequence 97, Appl
4	87	82.1	50	3	Sequence 29, Appl
5	87	82.1	374	3	Sequence 61, Appl
6	54	50.9	383	1	Sequence 2, Appl
7	54	50.9	383	1	Sequence 78, Appl
8	54	50.9	383	1	Sequence 78, Appl
9	54	50.9	383	1	Sequence 78, Appl
10	54	50.9	383	1	Sequence 78, Appl
11	54	50.9	387	1	Sequence 72, Appl
12	54	50.9	387	1	Sequence 72, Appl
13	54	50.9	387	1	Sequence 72, Appl
14	54	50.9	387	1	Sequence 72, Appl
15	54	50.9	387	1	Sequence 72, Appl
16	54	50.9	391	1	Sequence 59, Appl
17	54	50.9	391	1	Sequence 59, Appl
18	54	50.9	391	1	Sequence 59, Appl
19	54	50.9	391	1	Sequence 59, Appl
20	54	50.9	391	1	Sequence 59, Appl
21	54	50.9	398	1	Sequence 74, Appl
22	54	50.9	398	1	Sequence 74, Appl
23	54	50.9	398	1	Sequence 74, Appl
24	54	50.9	398	1	Sequence 74, Appl
25	54	50.9	398	1	Sequence 74, Appl
26	52	49.1	397	1	Sequence 76, Appl
27	52	49.1	397	1	Sequence 76, Appl

28	52	49.1	397	1	US-08-175-069A-76
29	52	49.1	397	4	US-08-461-933B-76
30	52	49.1	397	4	US-08-461-933B-76
31	51	48.1	20	3	US-08-467-023-30
32	50	47.2	388	1	US-08-290-448A-80
33	50	47.2	388	1	US-08-290-448A-80
34	50	47.2	388	1	US-08-290-448A-80
35	50	47.2	388	1	US-08-290-448A-80
36	50	47.2	388	4	US-08-461-933B-80
37	50	47.2	388	4	US-08-461-933B-80
38	46	43.4	354	4	US-03-252-931A-19538
39	45	42.9	360	4	US-03-196-452A-501
40	45	42.5	413	4	US-03-149-426-751
41	45	42.5	413	4	US-08-999-774A-6
42	44	41.5	215	4	US-03-252-931A-12686
43	44	41.5	257	3	US-08-637-759B-92
44	44	41.5	257	3	US-08-671-355A-92
45	44	41.5	257	4	US-09-331-945-92

ALIGNMENTS

RESULT 1  
US-08-467-023-95  
Sequence 95, Application US/0847023  
Patent No. 6050386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Joanne  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuo, Wei-Chang  
APPLICANT: Yeung, Siu-mei H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Ekley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Antigenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.2E  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467-023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/150,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Reillyard  
REGISTRATION NUMBER: 39,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7430  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-467-023-95

Query Match: 83.0%; Score 88; DP 1; Length 367;  
Best Local Similarity 80.0%; Pred. No. 7e-06;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

CY 1 SAVGKGGAFTVTSSDDCP 20  
||||| ||||| :|||  
Db 52 STMGKGGSFTVTSTDCNP 71

## RESULT 2

US-08-467-023-97  
Sequence 97, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD 104 104  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 97:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 370 amino acids  
TYPE: amine acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08 467-023-97

Query Match: 83.0%; Score 88; DP 1; Length 370;  
Best Local Similarity 80.0%; Pred. No. 7.1e-06;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

CY 1 SAVGKGGAFTVTSSDDCP 20  
||||| ||||| :|||  
Db 52 STMGKGGSFTVTSTDCNP 71

## RESULT 3

US-08 467-023-29  
Sequence 29, Application US/08467023

Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD 104 104  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08 467-023-29

Query Match: 42.1%; Score 47; DP 1; Length 20;  
Best Local Similarity 50.0%; Pred. No. 1.5e-07;  
Matches 16; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

CY 1 SAVGKGGAFTVTSSDDCP 20  
||||| ||||| :|||  
Db 1 STMGKGGSFTVTSTDCNP 20

## RESULT 4

US-08-467-023-61  
Sequence 61, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From



```

; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; City: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI 026CPE2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 61:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US 08-457-023 61

Query Match 82.1%; Score 87; DB 3; Length 60;
Best Local Similarity 80.0%; Pred. No. 124 36;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

CY 1 SAMGKGGAFYTVTSSDDCP 20
||||| ||||| |||||
DB 4: STMGGKGGDLYTVTNSDDCP 60

RESULT 5
US-08-457-023 2
; Sequence 2, Application US/08467023
; Patent No. 6092386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; City: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 05/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-026CPE2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-2

Query Match 82.1%; Score 87; DB 3; Length 374;
Best Local Similarity 80.0%; Pred. No. 1e-35;
Matches 16; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

CY 1 SAMGKGGAFYTVTSSDDCP 20
||||| ||||| |||||
DB 52 STMGGKGGDLYTVTNSDDCP 71

RESULT 6
US-08-290-448A-78
; Sequence 78, Application US/08290448A
; Patent No. 5576954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-Chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; City: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 06/07529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Vandragsouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:

```

LENGTH: 383 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 X-LECIDE TYPE: protein  
 US-08-290-448A-78

Query Match 50.9%; Score 54; ID 1; Length 383;  
 Best Local Similarity 64.7%; Pred. No. 1.3;  
 Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 3 MGKKGAFYTVTSSDD 19  
 DB 71 IGGKGGDIYTVTSELDD 87

## RESULT 7

US-08-290-448A-78  
 ; Sequence 78, Application US/08290448A

Patent No. 5698204

GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-Chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 State Street, suite 510

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,448A

FILING DATE: August 15, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990

APPLICATION NUMBER: US 07/325,365

FILING DATE: March 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Atty E. Mandragouras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IM: 0180N

TELECOMMUNICATION INFORMATION:

TELEPHONE: 1617/227-7400

TELEFAX: 1617/227-5941

INFORMATION FOR SEQ ID NO: 78:

SEQUENCE CHARACTERISTICS:

LENGTH: 383 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-290-448A-78

Query Match 50.9%; Score 54; ID 1; Length 383;  
 Best Local Similarity 64.7%; Pred. No. 1.3;  
 Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 3 MGKKGAFYTVTSSDD 19  
 DB 71 IGGKGGDIYTVTSELDD 87

## RESULT 8

US-08-175-069A-78

; Sequence 78, Application US/08175069A

Patent No. 5776761  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-Chang  
 TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/175,069A

FILING DATE: December 29, 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990

APPLICATION NUMBER: US 07/325,365

FILING DATE: March 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Atty E. Mandragouras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IM: 0180V

TELECOMMUNICATION INFORMATION:

TELEPHONE: 1617/227-7400

TELEFAX: 1617/227-5941

INFORMATION FOR SEQ ID NO: 78:

SEQUENCE CHARACTERISTICS:

LENGTH: 383 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-175-069A-78

Query Match 50.9%; Score 54; ID 1; Length 383;  
 Best Local Similarity 64.7%; Pred. No. 1.3;  
 Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 3 MGKKGAFYTVTSSDD 19  
 DB 71 IGGKGGDIYTVTSELDD 87

## RESULT 9

US-08-461-9395-78

; Sequence 78, Application US/08461939B

Patent No. 6385019

GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-Chang

TITLE OF INVENTION: Methods For Treating Sensitivity To A

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 28 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

us-09-202-464-6.ra1

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? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent in Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/461,539B
? FILING DATE:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/464,000
? FILING DATE: 05-JUN-1995
? APPLICATION NUMBER: US 08/290,448
? FILING DATE: 15-AUG-1994
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: 29-MAY-1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: 17-MAR-1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragouras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-018CNUV
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 78:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 381 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-461-939B-78

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Query Match 50.9% Score 54; DB 4; Length 383;
Best Local Similarity 64.7% Pred. No. 1.3;
Matches 1; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

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```

QY 3 MCKKGAFYVTSSDD 19
      |||||
DB 7: IGGKGGYVTSELDD 87

```

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RESULT 10
US-08-464-000-78
? Sequence 78, Application US/08464000
? Patent No. 633520
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Rafnar, Thorunn
? APPLICANT: Kuo, Mei-chang
? TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD, LLP
? STREET: 60 State Street
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent in Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/464,000
? FILING DATE: 05-JUN-1995
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/290,448
? FILING DATE: 15-AUG-1994
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: 29-MAY-1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: 17-MAR-1989
? ATTORNEY/AGENT INFORMATION:

```

```

? NAME: Amy E. Mandragouras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-018CNUV
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 78:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 381 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-464-000-78

Query Match 50.9% Score 54; DB 4; Length 383;
Best Local Similarity 64.7% Pred. No. 1.3;
Matches 1; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 3 MCKKGAFYVTSSDD 19
      |||||
DB 7: IGGKGGYVTSELDD 87

RESULT 11
US-08-290-448A-72
? Sequence 72, Application US/08290448A
? Patent No. 5678954
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Rafnar, Thorunn
? APPLICANT: Kuo, Mei-chang
? TITLE OF INVENTION: Allergenic Proteins from Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, Suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent in Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: May 29, 1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: March 17, 1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragouras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-018CNUV
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 72:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 387 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-290-448A-72

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```

Query Match 50.9% Score 54; DB 1; Length 387;
Best Local Similarity 64.7% Pred. No. 1.3;
Matches 1; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

```

QY 3 MGGKCGAFYTVTSSDD 19  
: : : : :  
DB 70 VGGKCGDIYTVTSELD 86

```

1  RESULT 12
2  US/08 290-448A-72
3  Sequence 72, Application US/08220448A
4  Patent No. 568204
5  GENERAL INFORMATION:
6  APPLICANT: Rogers, Bruce
7  APPLICANT: Klapper, David G.
8  APPLICANT: Ratnat, Morton
9  APPLICANT: Kuo, Mei-chang
10 TITLE OF INVENTION: Allergenic Proteins From Bacteria and Fungi
11 NUMBER OF SEQUENCES: 93
12 CORRESPONDENCE ADDRESS:
13 ADDRESSEE: LAHIVE & COCKFIELD
14 STREET: 60 State Street, Suite 310
15 City: Boston
16 State: Massachusetts
17 COUNTRY: USA
18 ZIP: 02109 1875
19 COMPUTER READABLE FORM:
20 MEDIA TYPE: Floppy disk
21 COMPUTER: Ix PC compatible
22 OPERATING SYSTEM: PC-DOS/MS-DOS
23 SOFTWARE: Patent In Release #1.0, Version #1.0
24 CURRENT APPLICATION DATA:
25 APPLICATION NUMBER: US/08/290,448A
26 FILING DATE: August 15, 1994
27 PRIORITY APPLICATION DATA:
28 APPLICATION NUMBER: US 07/529,951
29 FILING DATE: May 29, 1990
30 APPLICATION NUMBER: US 07/324,165
31 FILING DATE: March 17, 1989
32 ATTORNEY/AGENT INFORMATION:
33 NAME: Atty. Mandragoras
34 REGISTRATION NUMBER: 36,217
35 REFERENCE/COCKET NUMBER: IM-CLIN
36 TELECOMMUNICATION INFORMATION:
37 TELEPHONE: 617/227-7400
38 TELEFAX: 617/227-5941
39 INFORMATION FOR SEQ ID NO: 72:
40 SEQUENCE CHARACTERISTICS:
41 LENGTH: 187 amino acids
42 TYPE: amino acid
43 TOPOLOGY: linear
44 MOLECULE TYPE: protein
45 US 08 290-448A-72

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1 RESULT 13
2 US-08-175-069A-72
3 : Sequence 72, Application US/08175069A
4 : Patent No. 5736761
5 :
6 : GENERAL INFORMATION:
7 : APPLICANT: ROGERS, Bruce
8 : APPLICANT: Klapper, David G.
9 : APPLICANT: Ratnap, Thorunn
10 : APPLICANT: Kuo, Mei-chang
11 :
12 : TITLE OF INVENTION: Allergenic Proteins from Bacteria and Their
13 :
14 : NUMBER OF SEQUENCES: 93
15 :
16 : CORRESPONDENCE ADDRESS:
17 : ADDRESSEE: LAHIVE & COCKFIELD, LLP

```

STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109 1A75  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in process #1.0, Version #1.25  
CURRENT APPLICATION DATA: US 08/175,696A  
FILING DATE: December 23, 1991  
PRIORITY APPLICATION DATA:  
PRIORITY APPLICATION NUMBER: US 07/509,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 08/175,666  
FILING DATE: March 27, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Magarinos  
REGISTRATION NUMBER: 36,127  
REFERENCE/DOCKET NUMBER: IM1 0150V  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 237 7430  
TELEFAX: (617) 237 5941  
INFORMATION FOR SEQ ID NO: 72:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 187 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
ID: 06-175-596A-72

RESULT 14  
 US 08-461,939B 7.  
 Sequence 12, Application US/0461,939B  
 Patent No. 6,111,119  
 GENERAL INFORMATION  
 APPLICANT: BILDER, RICHARD  
 APPLICANT: KATZ, DAVID B  
 APPLICANT: RABIN, YISROEL  
 APPLICANT: ZIG, YOSHA  
 TITLE OF INVENTION: METHODS FOR Treating sensitivity To A  
 TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epit  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: JAHVE & COOKFIELD, LLP  
 STREET: 26 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIA TYPE: Floppy disk  
 COMPUTER: IBM PC Compatible  
 OPERATING SYSTEM: PC DOS/MS DOS  
 SOFTWARE: Patent in Release #10, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08-461,939B  
 FILING DATE:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08-461,939  
 FILING DATE: 06 JUN-1991  
 APPLICATION NUMBER: US 08-461,939

FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-013CNDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-7424  
 INFORMATION FOR SEQ ID NO: 72:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 187 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-464-000-72

Query Match: 50.9%; Score 54; DB 4; Length 187;  
 Best Local Similarity: 64.7%; Pred. No. 1.3;  
 Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 3 MGKKGAFYTVTSDD 19  
 LE 70 VGGKGGDIYTVTSDD 86

RESULT 15  
 US-09-464-000-72  
 Sequence 72, Application US/08464000  
 Parent No. 6135020  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Wei-chang  
 TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/464,000  
 FILING DATE: 05-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/230,448  
 FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-013CNDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 72:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 187 amino acids  
 TYPE: amino acid

TOPLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-464-000-72  
 Query Match: 50.9%; Score 54; DB 4; Length 187;  
 Best Local Similarity: 64.7%; Pred. No. 1.3;  
 Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;  
 QY 3 MGKKGAFYTVTSDD 19  
 DB 70 VGGKGGDIYTVTSDD 86  
 Search completed: October 23, 2003, 09:55:19  
 Job time: 12.4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd

CM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 / Search time 19.75 Seconds  
(without alignments)  
169,980 Million cell updates/sec

Title: US-09-202-464-7

Perfect score: 109

Sequence: YVTSSDDPVPNPAGTILRY 20

Scoring table: BLASTN62

Gapop 10.0, Gapext 2.5

Searched: 629382 seqs, 167465630 residues

Total number of hits satisfying chosen parameters: 629492

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA:  
1: /cgn2\_6/ptodata/1/pubaa/US07\_PUBCOMB.pep.  
2: /cgn2\_6/ptodata/1/pubaa/PC1\_NEW\_PUB.pep.  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.  
5: /cgn2\_6/ptodata/1/pubaa/US07\_NEW\_PUB.pep.  
6: /cgn2\_6/ptodata/1/pubaa/PC1US\_PUBCOMB.pep.  
7: /cgn2\_6/ptodata/1/pubaa/US08\_NEW\_PUB.pep.  
8: /cgn2\_6/ptodata/1/pubaa/US08\_PUBCOMB.pep.  
9: /cgn2\_6/ptodata/1/pubaa/US09\_PUBCOMB.pep.  
10: /cgn2\_6/ptodata/1/pubaa/US09\_PUBCOMB.pep.  
11: /cgn2\_6/ptodata/1/pubaa/US09\_PUBCOMB.pep.  
12: /cgn2\_6/ptodata/1/pubaa/US09\_NEW\_PUB.pep.  
13: /cgn2\_6/ptodata/1/pubaa/US10\_PUBCOMB.pep.  
14: /cgn2\_6/ptodata/1/pubaa/US10\_PUBCOMB.pep.  
15: /cgn2\_6/ptodata/1/pubaa/US10\_PUBCOMB.pep.  
16: /cgn2\_6/ptodata/1/pubaa/US10\_NEW\_PUB.pep.  
17: /cgn2\_6/ptodata/1/pubaa/US10\_NEW\_PUB.pep.  
18: /cgn2\_6/ptodata/1/pubaa/US10\_PUBCOMB.pep.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the best hit printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109	100.0	375	11	US-09-847-208 58 Sequence 58, App
2	106	91.2	374	11	US-09-847-208 68 Sequence 68, App
3	97	89.0	367	11	US-09-847-208-109 Sequence 109, App
4	96	88.1	346	11	US-09-847-208-67 Sequence 67, App
5	84	77.1	15	12	US-10-354-240-24 Sequence 24, App
6	79	72.5	15	12	US-10-354-240-24 Sequence 24, App
7	65.5	60.1	397	11	US-09-847-208 15 Sequence 15, App
8	64.5	59.2	392	11	US-09-847-208 16 Sequence 16, App
9	64.5	59.2	396	11	US-09-847-208 13 Sequence 13, App
10	64.5	59.2	398	11	US-09-847-208 14 Sequence 14, App
11	62.5	57.3	397	11	US-09-847-208 17 Sequence 17, App
12	55	50.5	15	12	US-10-354-240-25 Sequence 25, App
13	52	47.7	623	15	US-10-156-761-11-20 Sequence 11-20, A
14	51	46.8	15	12	US-10-354-240-22 Sequence 22, App
15	47	43.1	170	9	US-09-864-761-3953 Sequence 3953, A

16	47	43.1	255	12	US-10-221-097-36 Sequence 36, App
17	47	43.1	694	10	US-09-765-298A-18 Sequence 18, App
18	47	43.1	1184	9	US-09-989-722-124 Sequence 124, App
19	47	43.1	1184	9	US-09-989-722-124 Sequence 124, App
20	47	43.1	1184	9	US-09-989-722-124 Sequence 124, App
21	47	43.1	1184	9	US-09-989-722-124 Sequence 124, App
22	47	43.1	1184	10	US-09-989-731-124 Sequence 124, App
23	47	43.1	1184	10	US-09-989-731-124 Sequence 124, App
24	47	43.1	1184	10	US-09-991-073-124 Sequence 124, App
25	47	43.1	1184	10	US-09-991-073-124 Sequence 124, App
26	47	43.1	1184	10	US-09-991-163-124 Sequence 124, App
27	47	43.1	1184	10	US-09-991-163-124 Sequence 124, App
28	47	43.1	1184	10	US-09-991-604-124 Sequence 124, App
29	47	43.1	1184	10	US-09-992-456-124 Sequence 124, App
30	47	43.1	1184	10	US-09-992-598-124 Sequence 124, App
31	47	43.1	1184	10	US-09-989-793A-124 Sequence 124, App
32	47	43.1	1184	10	US-09-989-793A-124 Sequence 124, App
33	47	43.1	1184	10	US-09-990-444-124 Sequence 124, App
34	47	43.1	1184	10	US-09-991-181-124 Sequence 124, App
35	47	43.1	1184	10	US-09-989-730-124 Sequence 124, App
36	47	43.1	1184	10	US-09-992-436-124 Sequence 124, App
37	47	43.1	1184	10	US-09-993-687-124 Sequence 124, App
38	47	43.1	1184	11	US-09-989-734-124 Sequence 124, App
39	47	43.1	1184	11	US-09-997-653-124 Sequence 124, App
40	47	43.1	1184	11	US-09-993-667-124 Sequence 124, App
41	47	43.1	1184	11	US-09-997-428-124 Sequence 124, App
42	47	43.1	1184	11	US-09-997-666-124 Sequence 124, App
43	47	43.1	1184	11	US-09-992-438-124 Sequence 124, App
44	47	43.1	1184	11	US-09-992-562-124 Sequence 124, App
45	47	43.1	1184	11	US-09-992-711-124 Sequence 124, App

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
; Sequence 58, Application US/09847208  
; Publication No. US2003082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: AGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: US07.002A  
; CURRENT APPLICATION NUMBER: US/09/847.209  
; CURRENT FILING DATE: 2001.05.01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO: 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Characyparis obtusa (Japanese cypress)  
US-09-847-208-58

Query Match 100.0%; Score 109, DB 11; Length 375;  
Best Local Similarity 100.0%; Pred. No. 1.2e-07;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YVTSSDDPVPNPAGTILRY 20  
|||||  
Db 62 YVTSSDDPVPNPAGTILRY 61

RESULT 2  
US-09-847-208-68  
; Sequence 68, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 174  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica (Japanese cedar)  
 ; US-09-847-208-68

Query Match: 97.2%; Score 156; DB 11; Length 174;  
 Best Local Similarity 95.0%; Pred. No. 1, 1e-05;  
 Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YTVTSDDPVPAPGTGLRY 20  
 ||||| ||||| |||||  
 DB 62 YTVTSDDPVPAPGTGLRY 51

RESULT 5  
 US-09-847-208-109  
 ; Sequence 139, Application US/09847208  
 ; Publication No. US20020282190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 167  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Ozark white cedar)  
 ; US-09-847-208-109

Query Match: 89.0%; Score 97; DB 11; Length 167;  
 Best Local Similarity 85.0%; Pred. No. 1, 1e-03;  
 Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY : YTVTSDDPVPAPGTGLRY 20  
 ||||| ||||| |||||  
 DB 62 YTVTSDDPVPAPGTGLRY 51

RESULT 4  
 US-09-847-208-67  
 ; Sequence 67, Application US/09847208  
 ; Publication No. US2003008219CA  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 167  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 ; US-09-847-208-67

Query Match: 88.1%; Score 95; DB 11; Length 166;  
 Best Local Similarity 85.0%; Pred. No. 7, 7e-06;  
 Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY : YTVTSDDPVPAPGTGLRY 20  
 ||||| ||||| |||||  
 DB 41 YTVTSDDPVPAPGTGLRY 60

RESULT 5  
 US-10-354-240-24  
 ; Sequence 24, Application US/10354240  
 ; Publication No. US20030185847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Daijiki, Kazuo  
 ; APPLICANT: Iwama, Akiro  
 ; APPLICANT: KINO, KOOSUKE  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SPO 103D1  
 ; CURRENT APPLICATION NUMBER: US/10/354.240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-03-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 24  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (10), (15)  
 ; OTHER INFORMATION: Cytll peptide, Figure 1, Row 10  
 ; US-10-354-240-24

Query Match: 97.1%; Score 84; DB 12; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 1, 4e-05;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 SDDPVPAPGTGLRY 20  
 ||||| |||||  
 DB 1 SDDPVPAPGTGLRY 15

RESULT 6  
 US-10-354-240-23  
 ; Sequence 23, Application US/10354240  
 ; Publication No. US20030185847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Daijiki, Kazuo  
 ; APPLICANT: Iwama, Akiro  
 ; APPLICANT: KINO, KOOSUKE  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SPO 103D1  
 ; CURRENT APPLICATION NUMBER: US/10/354.240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-03-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 23  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:

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: NAME/KEY: MISC FEATURE
: LOCATION: (1), (15)
: OTHER INFORMATION: CryI peptide, Figure 1, Row 9
US-10,354,240.23

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Query Match 72.5%; Score 79; DP 12; Length 15;  
Best Local Similarity 93.3%; Pred. No. 7.2% (5);  
Matches 14; Conservative 1; Mismatches 0; Indels

cy : ytyvssddpvnPAP 15  
||| : ||| : |||  
db : ytyvnsddpvnPAP 15

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RESULT 7
US-09-847-208-15
Sequence ID, Application US/09847208
Publication No. US20040082190A1
GENERAL INFORMATION:
APPLICANT: Saxxon, Andrew
APPLICANT: Zhang, Ke
APPLICANT: Zhu, Baocheng
TITLE OF INVENTION: FUSION-MEDIATED A
TITLE OF INVENTION: IGE-MEDIATED A
FILE REFERENCE: JG47-002A
CURRENT APPLICATION NUMBER: US/09/847
NUMBER OF SEQ. IDS NOS: 177
SOFTWARE: FastSeq for Windows Versio
SEQ. ID NO. 15
LENGTH: 397
TYPE: PRT
ORGANISM: Ambrosia artemisiifolia
US-09-847-208-15

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Query Vector	60.1%	Score 65.5	104 11	Length 197
Best Local Similarity	66.7%	Pred. No. 6.2		
Matches 14	Conservative	27	Mismatches 47	Indels 1
				Gaps 17

QY	1	YTVTSS-DDDPVNEPAGT.LRY	20
UB	86	YTVT.SNLDGDDVANPKEGT.LRF	108

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RESULT 2
CS 09-047-208-16
? Sequence ID: Application US/09847208
? Publication No: US20030092190A1
? GENERAL INFORMATION:
? APPLICANT: SAKO, Andrew
? APPLICANT: Zhang, Ke
? APPLICANT: Zhu, Taoheng
? TITLE OF INVENTION: FUSION MOLECULES AND
? TITLE OF INVENTION: USE-MEDIATED ALLELE
? FILE REFERENCE: US67 002A
? CURRENT APPLICATION NUMBER: US/09/847,208
? CURRENT FILING DATE: 2001-05-01
? NUMBER OF SEQ ID NOS: 177
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 16
? LENGTH: 352
? TYPE: prt
? ORGANISM: Ambrosia artemisiifolia (Short)
US-09-047-208-16

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Query Match 59.28; Score 64.5; Db 1; Length 122;  
Best Loca. Similarity 66.7%; Pred. No. 0.2;  
Matches 14; Conservative 1; Mismatches 4;  
Gaps 1;

QY : YTV'SS-DDDFVNPAGT LRY 20  
 || || || || ||  
 DL 89 YTV'SELDDCVNPKGT LRF 108

```

RESULT 3
US-09-847-208-13
; Sequence 13, Application US/09647208
; Publication No. US2005199A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocunq
; TITLE OF INVENTION: FUNCTION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: LIFE MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: 2007-0024
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: prt
; ORGANISM: Ambrosia attenuata, a Short ragweed.
US-09-847-208-13

```

Query Match	Score	DB ID	Length
Best Local Similarity	66.91	1602	277
Matches	14		
Conservative	11		
Mismatches	11		
Indels	5		

QY 1 YQVSS-UDQVNPAGTTRY 20  
| | | | |  
UB 67 YVTSELDQVANKGQTRF 100

```

RESULT LC
US 09-847-228-14
: Sequence 14, Application US/09/847,228
: Publication No. US2010062190A1
: GENERAL INFORMATION:
: APPLICANT: Saxon, Andrew
: APPLICANT: Zhang, Ke
: APPLICANT: Zhu, Daoheng
: TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
: TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
: FILE REFERENCE: J067 0024
: CURRENT APPLICATION NUMBER: US/09/847,228
: CURRENT FILING DATE: 2001 05-01
: NUMBER OF SEQ ID NOS: 177
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 14
: LENGTH: 398
: TYPE: PRT
: ORIGIN: SM
: ORGANISM: Ambrosia attenuatissima (Beech Leafhopper)
US-09-847-228-14

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Query Match: 59.28; Score 64.5; DP 11; length 398;
Res. Local Similarity 66.7%; Pred. No. 0.28;
Matches 14; Conservative 1; Mis-matches 5; Indels 1
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QY	Y	T	V	T	S	-	S	I	M	I	N	A	P	O	L	I	T	A	R	Y	20
DB	89	Y	T	V	T	S	-	S	I	M	I	N	A	P	O	L	I	T	A	R	Y

RESULT 11  
US-59-547-205 17  
Sequence 17, App. Location US09847208  
Publication No. US2000052190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Da-Peng  
TITLE OF INVENTION: FISSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: THE MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: 2000-002824  
CURRENT APPLICATION NUMBER: US09847208



1 CURRENT FILING DATE: 2001-05-01  
2 NUMBER OF SEQ ID NOS: 177  
3 SOFTWARE: PAS-SEC for Windows Version 4.0  
4 SEQ ID NO 17:  
5 LENGTH: 357  
6 TYPE: PRT  
7 ORGANISM: Ambrosia attenuifolia (Short readweed)  
8 US-09-847-208 17

Query Match 57.3% Score 62.5% DP 12 Length 397  
Best Local Similarity 66.7% Pred. No. 0.53  
Matches 14 Conservative 1 Mismatches 5 Indels 1 Gaps 1

QY 1 YVTVSDDCVNAPGTLRY 20  
|...|||...|||  
R 86 YMVTSDDCVNAPGTLRF 108

RESULT 12  
US-10-354-240-25  
1 Sequence 25, Application US/10354240  
2 Publication No. US20030195847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Sone, Toshio  
5 APPLICANT: Kame, Akimori  
6 APPLICANT: Dairiki, Kazuo  
7 APPLICANT: Iwata, Akiko  
8 APPLICANT: Kuno, Kohsuke  
9 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
10 FILE REFERENCE: SPO-10301  
11 CURRENT APPLICATION NUMBER: US/10354-240  
12 CURRENT FILING DATE: 2003-01-29  
13 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
14 PRIOR FILING DATE: 1997-03-10  
15 PRIOR APPLICATION NUMBER: US 09/142,524  
16 PRIOR FILING DATE: 1998-09-09  
17 NUMBER OF SEQ ID NOS: 174  
18 SOFTWARE: PatentIn version 3.1  
19 SEQ ID NO 25  
20 LENGTH: 15  
21 TYPE: PRT  
22 ORGANISM: Cryptosporidia japonica  
23 FEATURE:  
24 NAME/KEY: MISC FEATURE  
25 LOCATION: 117..115  
26 OTHER INFORMATION: Ceryl peptide, Figure 1, Row 11  
US-10-354-240-25

Query Match 50.5% Score 55% DP 10 Length 16  
Best Local Similarity 100.0% Pred. No. 0.13  
Matches 10 Conservative 3 Mismatches 0 Indels 0 Gaps 0

QY 11 VNAPGTLRY 20  
:||||:  
Db 1 VNAPGTLRY 10

RESULT 13  
US-10-156-761-11120  
1 Sequence 1120, Application US/10156761  
2 Publication No. US2003019018A1  
3 GENERAL INFORMATION:  
4 APPLICANT: OMURA, SATOSHI  
5 APPLICANT: KEDA, HARUO  
6 APPLICANT: ISHIKAWA, JUN  
7 APPLICANT: HOSIKAWA, HIROSHI  
8 APPLICANT: SHIBA, TADAYOSHI  
9 APPLICANT: SAKAKI, YOSHIYUKI  
10 APPLICANT: HATTORI, MASAHIRA  
11 TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
12 FILE REFERENCE: 249-262  
13 CURRENT APPLICATION NUMBER: US/10156-761  
14 CURRENT FILING DATE: 2002-05-29

1 PRIOR APPLICATION NUMBER: JP 2001-204089  
2 PRIOR FILING DATE: 2001-05-30  
3 PRIOR APPLICATION NUMBER: JP 2001-272697  
4 PRIOR FILING DATE: 2001-08-02  
5 NUMBER OF SEQ ID NOS: 15109  
6 SEQ ID NO 1112  
7 LENGTH: 623  
8 TYPE: PRT  
9 ORGANISM: Streptomyces avermitilis  
10 US-10-156-761-11120

Query Match 47.7% Score 52% DP 15 Length 623  
Best Local Similarity 64.3% Pred. No. 0.7  
Matches 9 Conservative 2 Mismatches 3 Indels 0 Gaps 0

QY 4 TSSDTPVNAEAT 17  
:||||:  
Db 197 TSASDPVNAEATGS 215

RESULT 14  
US-10-354-240-22  
1 Sequence 22, Application US/10354240  
2 Publication No. US20030195847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Sone, Toshio  
5 APPLICANT: Kame, Akimori  
6 APPLICANT: Dairiki, Kazuo  
7 APPLICANT: Iwata, Akiko  
8 APPLICANT: Kuno, Kohsuke  
9 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
10 FILE REFERENCE: SPO-10301  
11 CURRENT APPLICATION NUMBER: US/10354-240  
12 CURRENT FILING DATE: 2003-01-29  
13 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
14 PRIOR FILING DATE: 1997-03-10  
15 PRIOR APPLICATION NUMBER: US 09/142,524  
16 PRIOR FILING DATE: 1998-09-09  
17 NUMBER OF SEQ ID NOS: 174  
18 SOFTWARE: PatentIn version 3.1  
19 SEQ ID NO 22  
20 LENGTH: 15  
21 TYPE: PRT  
22 ORGANISM: Cryptosporidia japonica  
23 FEATURE:  
24 NAME/KEY: MISC FEATURE  
25 LOCATION: 117..115  
26 OTHER INFORMATION: Ceryl peptide, Figure 1, Row 8  
US-10-354-240-22

Query Match 46.8% Score 51% DP 12 Length 15  
Best Local Similarity 90.0% Pred. No. 0.71  
Matches 9 Conservative 1 Mismatches 0 Indels 0 Gaps 0

QY 1 YVTVSDDCP 10  
:||||:  
Db 6 YVTVSDDCP 15

RESULT 15  
US-09-864-761-19530  
1 Sequence 3930, Application US/09864761  
2 Patent No. US2002034876A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Penn, Sharon G.  
5 APPLICANT: Rank, David R.  
6 APPLICANT: Hanzel, David K.  
7 APPLICANT: Chen, Weisheng  
8 TITLE OF INVENTION: HUMAN GENE EXPRESSION ANALYSIS BY MICROARRAY  
9 FILE REFERENCE: Neomicin-X  
10 CURRENT APPLICATION NUMBER: US/09/864,761  
11 CURRENT FILING DATE: 2001-05-23

```

1  PRIOR APPLICATION NUMBER: US 60/180,312
2  PRIOR FILING DATE: 2000-02-04
3  PRIOR APPLICATION NUMBER: US 60/207,456
4  PRIOR FILING DATE: 2000-05-26
5  PRIOR APPLICATION NUMBER: US 09/612,366
6  PRIOR FILING DATE: 2000-08-03
7  PRIOR APPLICATION NUMBER: GB 24263,6
8  PRIOR FILING DATE: 2000-10-04
9  PRIOR APPLICATION NUMBER: US 60/236,359
10 PRIOR FILING DATE: 2000-09-27
11 PRIOR APPLICATION NUMBER: PCT/US01/00666
12 PRIOR FILING DATE: 2001-01-30
13 PRIOR APPLICATION NUMBER: PCT/US01/00667
14 PRIOR FILING DATE: 2001-01-30
15 PRIOR APPLICATION NUMBER: PCT/US01/00664
16 PRIOR FILING DATE: 2001-01-30
17 PRIOR APPLICATION NUMBER: PCT/US01/00669
18 PRIOR FILING DATE: 2001-01-30
19 PRIOR APPLICATION NUMBER: PCT/US01/00665
20 PRIOR FILING DATE: 2001-01-30
21 PRIOR APPLICATION NUMBER: PCT/US01/00668
22 PRIOR FILING DATE: 2001-01-30
23 PRIOR APPLICATION NUMBER: PCT/US01/00663
24 PRIOR FILING DATE: 2001-01-30
25 PRIOR APPLICATION NUMBER: PCT/US01/00662
26 PRIOR FILING DATE: 2001-01-30
27 PRIOR APPLICATION NUMBER: PCT/US01/00661
28 PRIOR FILING DATE: 2001-01-30
29 PRIOR APPLICATION NUMBER: PCT/US01/00670
30 PRIOR FILING DATE: 2001-01-30
31 PRIOR APPLICATION NUMBER: US 60/234,687
32 PRIOR FILING DATE: 2000-09-21
33 PRIOR APPLICATION NUMBER: US 09/608,408
34 PRIOR FILING DATE: 2000-06-30
35 PRIOR APPLICATION NUMBER: US 09/774,203
36 PRIOR FILING DATE: 2001-01-29
37 NUMBER OF SEQ ID NOS: 49117
38 SOFTWARE: Ambion Sequence Listing Engine v0.1.1
39 SEQ ID NO 1:530
40 LENGTH: 170
41 TYPE: FRT
42 ORGANISM: Homo sapiens
43 FEATURE:
44 OTHER INFORMATION: MAP TO ACC09493.1
45 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
46 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
47 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.4
48 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
49 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.4
50 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.7
51 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.7
52 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.8
53 OTHER INFORMATION: SWISSPROT HIT: P12423, EVALUATION: 1.8
54 CS 09-864-761-39530

```



```

US-08-467-023-95
Query Match:          97.2%  Score 106, DB 3, Length 20;
Best Local Similarity 95.0%  Pred. No. 2, 4e 09;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0.

QY 1 YTVTSSDDDPVNPAPGTJRY 20
   |||||
DB 1 YTVTSSDDDPVNPAPGTJRY 20
   |||||

RESULT 2
US-08-467-023-95
Sequence 2, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 02/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane S. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USPO 180 100 000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

Query Match:          97.2%  Score 106, DB 3, Length 20;
Best Local Similarity 95.0%  Pred. No. 2, 4e 09;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0.

QY 1 YTVTSSDDDPVNPAPGTJRY 20
   |||||
DB 62 YTVTSSDDDPVNPAPGTJRY 51
   |||||

RESULT 3
US-08-467-023-95
Sequence 97, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 02/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane S. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USPO 180 100 000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

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```

Sequence 95, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 02/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane S. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USPO 180 100 000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

Query Match:          97.2%  Score 106, DB 3, Length 367;
Best Local Similarity 95.0%  Pred. No. 2, 4e 06;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0.

QY 1 YTVTSSDDDPVNPAPGTJRY 20
   |||||
DB 62 YTVTSSDDDPVNPAPGTJRY 51
   |||||

RESULT 4
US-08-467-023-95
Sequence 97, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 02/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane S. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USPO 180 100 000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

```

```

1 TITLE OF INVENTION: Japanese Cedar Pollen
2 NUMBER OF SEQUENCES: 261
3 CORRESPONDENCE ADDRESS:
4 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
5 STREET: 610 Lincoln St
6 CITY: Waltham
7 STATE: MA
8 COUNTRY: USA
9 ZIP: 02154
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: Floppy disk
12 COMPUTER: IBM PC compatible
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14 SOFTWARE: Patent Release #1.0, Version #1.25
15 CURRENT APPLICATION DATA:
16 APPLICATION NUMBER: US/08/467,023
17 FILING DATE: June 6, 1995
18 CLASSIFICATION: 424
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: 08/350,225
21 FILING DATE: December 6, 1994
22 ATTORNEY/AGENT INFORMATION:
23 NAME: Jane E. Retillard
24 REGISTRATION NUMBER: 38,872
25 REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-0848702)
26 TELECOMMUNICATION INFORMATION:
27 TELEPHONE: (617) 227-7400
28 TELEFAX: (617) 227-5941
29 INFORMATION FOR SEQ ID NO: 97:
30 SEQUENCE CHARACTERISTICS:
31 LENGTH: 370 amino acids
32 TYPE: amino acid
33 TOPOLOGY: linear
34 MOLECULE TYPE: protein
35 US 08-467-023-97

Query Match 89.03; Score 97; EB 1; Length 370;
Best Local Similarity 85.03; Pred. No. 0.09;
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

CY 1 YVTSSDDPNVPAPGTLRY 20
|||||
DB 62 YVTSSADPNVPPTGTLRY 51

RESULT 5
US-08-290-448A-76
; Sequence 76, Application US/08290448A
; Patent No. 5676354
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Raqqweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1975
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290.448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 23, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Vandiagouras
; REGISTRATION NUMBER: 96,207
; REFERENCE/DOCKET NUMBER: TMI-0180N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-290-448A-76

```

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1 FILING DATE: May 23, 1990
2 APPLICATION NUMBER: US 07/325,365
3 FILING DATE: March 17, 1989
4 ATTORNEY/AGENT INFORMATION:
5 NAME: Amy E. Vandiagouras
6 REGISTRATION NUMBER: 36,207
7 REFERENCE/DOCKET NUMBER: TMI-0180N
8 TELECOMMUNICATION INFORMATION:
9 TELEPHONE: (617)227-7400
10 TELEFAX: (617)227-5941
11 INFORMATION FOR SEQ ID NO: 76:
12 SEQUENCE CHARACTERISTICS:
13 LENGTH: 397 amino acids
14 TYPE: amino acid
15 TOPOLOGY: linear
16 MOLECULE TYPE: protein
17 US-08-290-448A-76

Query Match 60.13; Score 65.5; EB 1; Length 397;
Best Local Similarity 46.73; Pred. No. 0.09;
Matches 14; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

CY 1 YVTSSDDPNVPAPGTLRY 20
|||||
DB 88 YVTSSDDPNVPKSTLRP 108

RESULT 6
US-08-290-448A-76
; Sequence 76, Application US/08290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Raqqweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290.448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 23, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Vandiagouras
; REGISTRATION NUMBER: 96,207
; REFERENCE/DOCKET NUMBER: TMI-0180N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-290-448A-76

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Query Match 60.1%; Score 65.5; DB 1; Length 397;  
 Best Local Similarity 66.7%; Pred. No. 0.058;  
 Matches 14; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY : YTVTSS-DDQVNPAPGTLRY 20  
 ||||| ||||| |||||  
 DB 88 YTVTSS-DDQVNPAPGTLRF 108

## RESULT 7

US-08 175-069A-76  
 ? Sequence 76, Application US/08175069A  
 ? Patent No. 6376761  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rainar, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: Allergenic Peptides from Ragweed and Uses  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/175,069A  
 ? FILING DATE: December 29, 1993  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 07/529,951  
 ? FILING DATE: May 29, 1990  
 ? APPLICATION NUMBER: US 07/325,365  
 ? FILING DATE: March 17, 1989  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Atty E. Mandragouras  
 ? REGISTRATION NUMBER: 36,207  
 ? REFERENCE/DOCKET NUMBER: IN: 018NDV  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: 1617/227-7400  
 ? TELEFAX: 1617/227-5941  
 ? INFORMATION FOR SEQ ID NO: 76:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 397 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 ? US 08 175-069A-76

Query Match 60.1%; Score 65.5; DB 1; Length 397;  
 Best Local Similarity 66.7%; Pred. No. 0.058;  
 Matches 14; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY : YTVTSS-DDQVNPAPGTLRY 20  
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 DB 88 YTVTSS-DDQVNPAPGTLRF 108

## RESULT 8

US-08-461-939B-76  
 ? Sequence 76, Application US/08461939B  
 ? Patent No. 6335019  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rainar, Thorunn  
 ? APPLICANT: Kuo, Wei-chang

? TITLE OF INVENTION: Methods For Treating Sensitivity To A  
 ? TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A R Cell Epit  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 28 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/461,939B  
 ? FILING DATE:  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 38/464,000  
 ? FILING DATE: 05-JUN-1995  
 ? APPLICATION NUMBER: US 38/490,448  
 ? FILING DATE: 15-AUG-1994  
 ? APPLICATION NUMBER: US 07/529,951  
 ? FILING DATE: 29-MAY-1990  
 ? APPLICATION NUMBER: US 07/325,365  
 ? FILING DATE: 17-MAR-1989  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Atty E. Mandragouras  
 ? REGISTRATION NUMBER: 36,207  
 ? REFERENCE/DOCKET NUMBER: IN: 018NDV  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: 1617/227-7400  
 ? TELEFAX: 1617/227-4214  
 ? INFORMATION FOR SEQ ID NO: 76:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 397 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: Protein  
 ? US-08-461-939B-76

Query Match 60.1%; Score 65.5; DB 4; Length 397;  
 Best Local Similarity 66.7%; Pred. No. 0.058;  
 Matches 14; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY : YTVTSS-DDQVNPAPGTLRY 20  
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 DB 88 YTVTSS-DDQVNPAPGTLRF 108

## RESULT 9

US-08 464-000-76  
 ? Sequence 76, Application US/08464000  
 ? Patent No. 6335020  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rainar, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/464,000
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/290,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-464-000-76

Query Match 60.1%, Score 64.5, DB 4, Length 397,
Best Local Similarity 66.7%, Pred. No. 0.058,
Matches 14, Conservative 2, Mismatches 4, Indels 1, Gaps 1;

QY 1 YVTSS-DDCPVNPAGCTLY 20
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Db 88 YVTISLDCDVANPKETLRF 108

RESULT 10
US-09-290-448A-78
; Sequence 78, Application: US/09290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-Chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-290-448A-78

Query Match 59.2%, Score 64.5, DB 1, Length 383,
Best Local Similarity 66.7%, Pred. No. 0.079,
Matches 14, Conservative 1, Mismatches 5, Indels 1, Gaps 1;

QY 1 YVTSS-DDCPVNPAGCTLY 20
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Db 79 YVTSELDCDVANPKETLRF 99

RESULT 12
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; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-290-448A-78

Query Match 59.2%, Score 64.5, DB 1, Length 383,
Best Local Similarity 66.7%, Pred. No. 0.079,
Matches 14, Conservative 1, Mismatches 5, Indels 1, Gaps 1;

QY 1 YVTSS-DDCPVNPAGCTLY 20
      ||| ||| |||
Db 79 YVTSELDCDVANPKETLRF 99

RESULT 11
US-08-290-448A-78
; Sequence 78, Application: US/09290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-Chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-290-448A-78

Query Match 59.2%, Score 64.5, DB 1, Length 383,
Best Local Similarity 66.7%, Pred. No. 0.079,
Matches 14, Conservative 1, Mismatches 5, Indels 1, Gaps 1;

QY 1 YVTSS-DDCPVNPAGCTLY 20
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Db 79 YVTSELDCDVANPKETLRF 99

RESULT 12
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US-08-175-069A-78  
; Sequence 78, Application US/08175069A  
; Patent No. 5776761  
; GENERAL INFORMATION:  
; APPLICANT: Rogers, Bruce  
; APPLICANT: Klapper, David G.  
; APPLICANT: Rafnar, Thorunn  
; APPLICANT: Kuo, Mei-chang  
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
; NUMBER OF SEQUENCES: 93  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 60 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109-1875  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08175069A  
; FILING DATE: December 29, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/529,951  
; FILING DATE: May 29, 1990  
; APPLICATION NUMBER: US 07/325,365  
; FILING DATE: March 17, 1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Atty E. Mandragoras  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: IM1-0185W  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/227-7400  
; TELEFAX: 617/227-5941  
; INFORMATION FOR SEQ ID NO: 78:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 383 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-175-069A-78  
Query Match 59.2%; Score 64.5; DB 1; Length 383;  
Best Local Similarity 66.7%; Pred. No. 0.079;  
Matches 14; Conservative 1; Mismatches 5; Indels 1; Gaps 1;  
QY : YTVTSS-CDQVNPAPGTLRY 20  
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Db 79 YTVTSELDDQVNPKEGTLRF 99  
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US-08-461-939B-78  
; Sequence 78, Application US/08461939B  
; Patent No. 6335019  
; GENERAL INFORMATION:  
; APPLICANT: Rogers, Bruce  
; APPLICANT: Klapper, David G.  
; APPLICANT: Rafnar, Thorunn  
; APPLICANT: Kuo, Mei-chang  
; TITLE OF INVENTION: Methods For Treating Sensitivity To A  
; TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope  
; NUMBER OF SEQUENCES: 93  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109-1875

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
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; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08461939B  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/464,000  
; FILING DATE: 05-JUN-1995  
; APPLICATION NUMBER: US 08/290,448  
; FILING DATE: 15-AUG-1994  
; APPLICATION NUMBER: US 07/529,951  
; FILING DATE: 29-MAY-1990  
; APPLICATION NUMBER: US 07/325,365  
; FILING DATE: 17-MAR-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Atty E. Mandragoras  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: IM1-0185W  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/227-7400  
; TELEFAX: 617/227-4214  
; INFORMATION FOR SEQ ID NO: 78:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 383 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-461-939B-78  
Query Match 59.2%; Score 64.5; DB 4; Length 383;  
Best Local Similarity 66.7%; Pred. No. 0.079;  
Matches 14; Conservative 1; Mismatches 5; Indels 1; Gaps 1;  
QY 1 YTVTSS-CDQVNPAPGTLRY 20  
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Db 79 YTVTSELDDQVNPKEGTLRF 99  
RESULT 14  
US-08-464-000-78  
; Sequence 78, Application US/08464000  
; Patent No. 6335020  
; GENERAL INFORMATION:  
; APPLICANT: Rogers, Bruce  
; APPLICANT: Klapper, David G.  
; APPLICANT: Rafnar, Thorunn  
; APPLICANT: Kuo, Mei-chang  
; TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
; NUMBER OF SEQUENCES: 93  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 60 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109-1875  
; COMPUTER READABLE FORM:  
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; APPLICATION NUMBER: US/08464000  
; FILING DATE: 05-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/290,448  
; FILING DATE: 15-AUG-1994  
; APPLICATION NUMBER: US 07/529,951  
; FILING DATE: 29-MAY-1990  
; APPLICATION NUMBER: US 07/325,365



FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM: 013CN2  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 79:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: Protein  
 US-09-464-000 78  
 Query Match 59.2%; Score 64.5; DB: 1; Length: 383;  
 Best Local Similarity 66.7%; Pred. No. 2,079;  
 Matches 14; Conservative 1; Mismatches 5; Indels 1; Gaps 1;  
 QY 1 YTVTSS-DDCPVNPAPGTLPY 20  
 Db 79 YTVTSS-DDCPVNPAPGTLPY 99  
 RESULT 15  
 US-09-290-448A-72  
 Sequence 72, Application US/08290448A  
 Patent No. 5676954  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Ratnar, Thorunn  
 APPLICANT: Kuo, Mei-chang  
 TITLE OF INVENTION: Allergenic Proteins From Eggplant and Uses  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LARIVE & COCKFIELD  
 STREET: 60 State Street, suite 510  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-PCS  
 SOFTWARE: Patent In Release #1.0, Version #1.05  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/290,448A  
 FILING DATE: August 15, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1992  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM: 013CN  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 72:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 387 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-290-448A-72  
 Query Match 59.2%; Score 64.5; DB: 1; Length: 387;  
 Best Local Similarity 66.7%; Pred. No. 2,079;

Matches 14; Conservative 1; Mismatches 5; Indels 1; Gaps 1;  
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 Db 78 YTVTSS-DDCPVNPAPGTLPY 99  
 Search completed: October 23, 2003, 09:55:19  
 Job time: 11.4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

Query protein: protein search, using sw model:

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 Seconds  
(without alignments)  
169,580 Million cell updates/sec

Title: US-09-202-464-8

Perfect score: 108  
Sequence: 1 VNPAPGTLRYGATRSLW1 20

Scoring table: BLCSUM62  
Gapop 10.0 , Gapext 0.5

Snatched: 429382 seqs, 167466633 residues

Total number of hits satisfying chosen parameters: 429382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	100	92.6	374	11	US-09-847-208-68
3	98	90.7	346	11	US-09-847-208-67
4	98	90.7	367	11	US-09-847-208-17
5	79	73.1	397	11	US-09-847-208-17
6	77	71.3	15	12	US-10-354-240-25
7	72	66.7	15	12	US-10-354-240-25
8	68	63.0	392	11	US-09-847-208-16
9	68	63.0	396	11	US-09-847-208-16
10	62	57.4	397	11	US-09-847-208-16
11	62	57.4	396	11	US-09-847-208-14
12	45	50.9	15	12	US-10-354-240-24
13	45.5	42.1	407	15	US-10-156-761-12555
14	45	41.7	15	12	US-10-354-240-27
15	44	40.7	146	12	US-09-880-573-38

16	44	40.7	330	10	US-09-843-676-203	Sequence 203, App
17	44	40.7	330	11	US-09-438-486-203	Sequence 203, App
18	44	40.7	330	15	US-10-053-758-203	Sequence 203, App
19	44	40.7	330	15	US-10-054-295-203	Sequence 203, App
20	44	40.7	330	15	US-10-054-611-203	Sequence 203, App
21	44	40.7	517	15	US-10-044-692-320	Sequence 320, App
22	44	40.7	517	15	US-10-044-539-320	Sequence 320, App
23	44	40.7	663	12	US-09-781-680-5	Sequence 5, App1
24	44	40.7	807	15	US-10-044-692-5	Sequence 5, App1
25	44	40.7	807	15	US-10-044-539-5	Sequence 5, App1
26	44	40.7	1132	10	US-09-990-089-2	Sequence 2, App1
27	44	40.7	1132	10	US-09-749-728B-31	Sequence 31, App1
28	44	40.7	1132	10	US-09-843-676-225	Sequence 225, App
29	44	40.7	1132	10	US-09-953-052-2	Sequence 2, App1
30	44	40.7	1132	12	US-10-295-681-57	Sequence 57, App1
31	44	40.7	1132	15	US-10-053-758-225	Sequence 225, App
32	44	40.7	1132	15	US-10-208-243-2	Sequence 2, App1
33	44	40.7	1132	15	US-10-054-295-225	Sequence 225, App
34	44	40.7	1132	15	US-10-054-611-225	Sequence 225, App
35	44	40.7	1132	15	US-10-105-963-2	Sequence 2, App1
36	44	40.7	1132	15	US-10-044-692-2	Sequence 2, App1
37	44	40.7	1132	15	US-10-044-539-2	Sequence 2, App1
38	44	40.7	1134	15	US-10-044-692-323	Sequence 323, App
39	44	40.7	1134	15	US-10-044-539-323	Sequence 323, App
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41	44	40.7	1189	15	US-10-044-539-325	Sequence 325, App
42	44	40.7	1200	15	US-10-044-692-324	Sequence 324, App
43	44	40.7	1200	15	US-10-044-539-324	Sequence 324, App
44	44	40.7	1265	15	US-10-044-692-314	Sequence 314, App
45	44	40.7	1285	15	US-10-044-539-314	Sequence 314, App

ALIGNMENTS

RESULT 1  
US-09-847-208-58  
; Sequence 58, Application US/09847208  
; Publication No. US2000082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; FILE REFERENCE: US67,002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO: 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Chlamydia parv obtusa (Caparese cypress)  
US-09-847-208-58

Query Match: 100.0% ; Score 108; DB 11; Length 375;  
Best Local Similarity: 100.0% ; Pred. No. 9.1e-09;  
Matches 20; Conservative 20; Mismatches 0; Indels 0; Gaps 0;

QY : VNPAPGTLRYGATRSLW1 20  
DB : VNPAPGTLRYGATRSLW1 91

RESULT 2  
US-09-847-208-68  
; Sequence 68, Application US/09847208  
; Publication No. US2000082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng

JS 33-847-208-109

Query Match 71.3%; Score 77; DB 12; Length 15;  
Best Local Similarity 93.3%; Pred. No. 2.2e-05;  
Matches 14; Conservative 1; Mismatches 0; Index

QY 1 VNPAQGLRYGATRE 15  
 |||||  
 DB 1 VNPAQGLRYGATRD 15

## RESULT 7

US-09-847-208-13

Sequence 26, Application US/0354240

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akimori

APPLICANT: Daiik, Kazuo

APPLICANT: Iwama, Akiho

APPLICANT: King, Katsuke

FILE REFERENCE: SPC-103C1

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

CURRENT APPLICATION NUMBER: US/0354240

PRIOR FILING DATE: 2003-03-29

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: US 09/142,524

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 26

LENGTH: 15

TYPE: PRT

ORGANISM: Cryptomeria japonica

FEATURE:

NAME/KEY: NISC FEATURE

LOCATION: C100115

OTHER INFORMATION: Crvyl peptide, Figure 1, Row 12

US-09-847-208-13

Query Match 56.7% Score 62; DB 11; Length 15;

Best Local Similarity 86.7% Pred. No. 0.015;

Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 6 GTRYGATRESLWI 20  
 |||||  
 DB 1 GTRYGATRESLWI 15

## RESULT 8

US-09-847-208-16

Sequence 16, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daoheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

FILE REFERENCE: US67,002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 16

LENGTH: 392

TYPE: PRT

ORGANISM: Artemisia folia (Short ragweed)

US-09-847-208-16

Query Match 53.0% Score 68; DB 11; Length 392;

Best Local Similarity 63.2% Pred. No. 0.015;

Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 NPAGTLRYGATRESLWI 20  
 |||||  
 DB 100 NPKEGTLRFAAQNRPLWI 118

## RESULT 9

US-09-847-208-13

Sequence 13, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daoheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

FILE REFERENCE: US67,002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 13

LENGTH: 396

TYPE: PRT

ORGANISM: Artemisia folia (Short ragweed)

US-09-847-208-13

Query Match 61.3% Score 68; DB 11; Length 396;

Best Local Similarity 61.3% Pred. No. 0.015;

Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 NPAGTLRYGATRESLWI 20  
 |||||  
 DB 99 NPKEGTLRFAAQNRPLWI 117

## RESULT 10

US-09-847-208-15

Sequence 15, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daoheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

FILE REFERENCE: US67,002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 15

LENGTH: 397

TYPE: PRT

ORGANISM: Artemisia folia (Short ragweed)

US-09-847-208-15

Query Match 57.4% Score 62; DB 11; Length 397;

Best Local Similarity 57.4% Pred. No. 0.013;

Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 NPAGTLRYGATRESLWI 20  
 |||||  
 DB 100 NPKEGTLRFAAQNRPLWI 118

## RESULT 11

US-09-847-208-14

Sequence 14, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daoheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

FILE REFERENCE: US67,002A

CURRENT APPLICATION NUMBER: US/09/847,208

```

: CURRENT FILING DATE: 2001-05-01
: NUMBER OF SEQ ID NOS: 177
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 14
: LENGTH: 399
: TYPE: PRT
: ORGANISM: Arabis artemisiifolia (Short ragweed)
US-09-847-202-14

```

```

Query Match      57.4%  Score 62; DB 11; Length 398;
Best Local Similarity 57.9%; Pred. No. 213;
Matches 10; Conservative 0; Mismatches 6; Indels 6; Gaps 0;

```

```

QY 3 NPAGTGLRYGATRESLWI 20
      |||||
DB 101 NPKGTGLRFAAQNRLWI 119

```

```

RESULT 12
US-10-354-240-24
: Sequence 24, Application US/10354240
: Publication No. US20030185847A
: GENERAL INFORMATION:
: APPLICANT: Sone, Toshio
: APPLICANT: Kume, Akimori
: APPLICANT: Cairiki, Kazuo
: APPLICANT: Iwama, Akiko
: APPLICANT: Kino, Kobsuke
: TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
: FILE REFERENCE: SPO-1030
: CURRENT APPLICATION NUMBER: US/10354-240
: CURRENT FILING DATE: 2003-01-29
: PRIOR APPLICATION NUMBER: PCT/JF97/00740
: PRIOR FILING DATE: 1997-03-10
: PRIOR APPLICATION NUMBER: US 09/142,524
: PRIOR FILING DATE: 1998-09-09
: NUMBER OF SEQ ID NOS: 174
: SOFTWARE: Patent version 3.1
: SEQ ID NO 24
: LENGTH: 15
: TYPE: PRT
: ORGANISM: Cytopomera japonica
: FEATURE:
: NAME/KEY: MISC FEATURE
: LOCATION: (11)-(25)
: OTHER INFORMATION: Cys1 peptide, Figure 1, Row 10
US-10-354-240-24

```

```

Query Match      50.9%  Score 65; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 VNPAQTGLRY 10
      |||||
DB 6 VNPAQTGLRY 15

```

```

RESULT 13
US-10-156-761-12555
: Sequence 12555, Application US/10156761
: Publication No. US20030119018A1
: GENERAL INFORMATION:
: APPLICANT: OKADA, HARUO
: APPLICANT: ISHIKAWA, JUN
: APPLICANT: HORIKAWA, HIROSHI
: APPLICANT: SHIWA, TADAYOSHI
: APPLICANT: SAKAKI, YOSHIYUKI
: APPLICANT: HATTORI, MASAHISA
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-262
: CURRENT APPLICATION NUMBER: US/10156-761
: CURRENT FILING DATE: 2002-05-29

```

```

: PRIOR APPLICATION NUMBER: JP 2001-204089
: PRIOR FILING DATE: 2001-05-30
: PRIOR APPLICATION NUMBER: JP 2001-272697
: PRIOR FILING DATE: 2001-08-02
: NUMBER OF SEQ ID NOS: 15109
: SEQ ID NO 12555
: LENGTH: 407
: TYPE: PRT
: ORGANISM: Streptococcus avermitilis
US-10-156-761-12555

```

```

Query Match      42.1%  Score 45.9; DB 15; Length 407;
Best Local Similarity 58.4%; Pred. No. 52;
Matches 10; Conservative 0; Mismatches 4; Indels 3; Gaps 1;

```

```

QY 3 PAPGTGLRYGATRESLWI 13
      |||
DB 4 PGGSTGLRY RNRPLW 17

```

```

RESULT 14
US-10-354-240-27
: Sequence 27, Application US/10354240
: Publication No. US20030185847A
: GENERAL INFORMATION:
: APPLICANT: Sone, Toshio
: APPLICANT: Kume, Akimori
: APPLICANT: Cairiki, Kazuo
: APPLICANT: Iwama, Akiko
: APPLICANT: Kino, Kobsuke
: TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
: FILE REFERENCE: SPO-1030
: CURRENT APPLICATION NUMBER: US/10354-240
: CURRENT FILING DATE: 2003-01-29
: PRIOR APPLICATION NUMBER: PCT/JF97/00740
: PRIOR FILING DATE: 1997-03-10
: PRIOR APPLICATION NUMBER: US 09/142,524
: PRIOR FILING DATE: 1998-09-09
: NUMBER OF SEQ ID NOS: 174
: SOFTWARE: Patent version 3.1
: SEQ ID NO 27
: LENGTH: 15
: TYPE: PRT
: ORGANISM: Cytopomera japonica
: FEATURE:
: NAME/KEY: MISC FEATURE
: LOCATION: (11)-(25)
: OTHER INFORMATION: Cys1 peptide, Figure 1, Row 13
US-10-354-240-27

```

```

Query Match      41.7%  Score 45; DB 12; Length 15;
Best Local Similarity 83.0%; Pred. No. 213;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 11 GATRESLWI 20
      |||||
DB 1 GATRESLWI 10

```

```

RESULT 15
US-09-880-573 38
: Sequence 38, Application US/09880573
: Publication No. US2003013581A1
: GENERAL INFORMATION:
: APPLICANT: Suzuki, Shintaro
: TITLE OF INVENTION: Procalcachrin Materials and Methods
: NUMBER OF SEQUENCES: 115
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Matsuda, O'Toole, Gerstein, Murray, &
: STREET: 213 South Wacker, 6300 Sears Tower
: CITY: Chicago
: STATE: Illinois
: COUNTRY: USA

```



GenCore version 5.1.6  
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OM protein protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 seconds

(without alignments)  
74,230 Million cell updates/sec

Title: US-09-202-464-8

Perfect score: 108

Sequence: 1 VNPAGTLYGATRRSLW 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:

- 1: /cgn2\_6/prodata/2/aa/5A-COMB.pep:\*
- 2: /cgn2\_6/prodata/2/aa/5B-COMB.pep:\*
- 3: /cgn2\_6/prodata/2/aa/6A-COMB.pep:\*
- 4: /cgn2\_6/prodata/2/aa/6B-COMB.pep:\*
- 5: /cgn2\_6/prodata/2/aa/6CTUS-COMB.pep:\*
- 6: /cgn2\_6/prodata/2/aa/backfiles.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100	92.6	20	3	US-08-467-023-31
2	100	92.6	374	3	US-08-467-023-2
3	98	90.7	367	3	US-08-467-023-95
4	98	90.7	370	3	US-08-467-023-97
5	73	73.1	388	1	US-08-290-448A-80
6	79	73.1	388	1	US-08-290-448A-80
7	79	73.1	388	1	US-08-175-069A-80
8	79	73.1	388	4	US-08-464-000-80
9	79	73.1	388	4	US-08-464-000-80
10	68	63.0	383	3	US-08-290-448A-78
11	68	63.0	383	3	US-08-290-448A-78
12	68	63.0	383	3	US-08-175-069A-78
13	68	63.0	383	4	US-08-464-000-78
14	68	63.0	383	4	US-08-464-000-78
15	68	63.0	387	1	US-08-290-448A-72
16	68	63.0	387	1	US-08-290-448A-72
17	68	63.0	387	1	US-08-175-069A-72
18	68	63.0	387	4	US-08-461-939B-72
19	68	63.0	387	4	US-08-464-000-72
20	62	57.4	391	1	US-08-290-448A-59
21	62	57.4	391	1	US-08-290-448A-59
22	62	57.4	391	2	US-08-175-069A-59
23	62	57.4	391	4	US-08-461-939B-59
24	62	57.4	391	4	US-08-464-000-59
25	62	57.4	397	1	US-08-290-448A-76
26	62	57.4	397	1	US-08-290-448A-76
27	62	57.4	397	1	US-08-175-069A-76

28	62	57.4	397	4	US-08-461-939B-76	Sequence 76, Appl
29	62	57.4	397	4	US-08-464-000-76	Sequence 76, Appl
30	62	57.4	398	1	US-08-290-448A-74	Sequence 74, Appl
31	62	57.4	398	1	US-08-290-448A-74	Sequence 74, Appl
32	62	57.4	398	1	US-08-175-069A-74	Sequence 74, Appl
33	62	57.4	398	4	US-08-461-939B-74	Sequence 74, Appl
34	62	57.4	398	4	US-08-464-000-74	Sequence 74, Appl
35	55	50.9	22	3	US-08-467-023-30	Sequence 30, Appl
36	49	45.4	77	4	US-09-252-991A-21642	Sequence 21642, A
37	46	42.6	371	4	US-09-252-991A-32348	Sequence 32348, A
38	45	41.7	20	3	US-08-467-023-32	Sequence 32, Appl
39	45	41.7	60	3	US-08-467-023-62	Sequence 62, Appl
40	44.5	41.2	229	4	US-09-252-991A-32515	Sequence 32515, A
41	44	40.7	146	2	US-07-398-063A-38	Sequence 38, Appl
42	44	40.7	146	2	US-08-453-274B-38	Sequence 38, Appl
43	44	40.7	146	1	US-08-451-695A-38	Sequence 38, Appl
44	44	40.7	146	1	US-08-268-161A-38	Sequence 38, Appl
45	44	40.7	146	2	US-08-451-702A-38	Sequence 38, Appl

## ALIGNMENTS

RESULT :  
US-08-467-023-31  
; Sequence 31: Application: US/08467023  
; Patent No. 690386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D.;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jare E. Renillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DCCKET NUMBER: 025.6 USD2 (M1-028CPD21)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

```

US-08 467-023-33
Query Match 92.6% Score 100 DB 37 Length 201
Best Local Similarity 90.0% Pred. No. 4.9e-10
Matches 18; Conservative 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||

RESULT 2
US-08 467-023-2
Sequence 2, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-02RCPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
LENGTH: 367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

Query Match 92.6% Score 100 DB 37 Length 367
Best Local Similarity 90.0% Pred. No. 1.4e-08
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 72 VNPAQGLRYGATRSRLWI 95
||| ||| ||| |||

RESULT 3
US-08 467-023-3
Sequence 3, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-02RCPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 92.6% Score 100 DB 37 Length 374
Best Local Similarity 90.0% Pred. No. 1.4e-08
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 72 VNPAQGLRYGATRSRLWI 95
||| ||| ||| |||

RESULT 3
US-08 467-023-3
Sequence 3, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-02RCPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 92.6% Score 100 DB 37 Length 374
Best Local Similarity 90.0% Pred. No. 1.4e-08
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 72 VNPAQGLRYGATRSRLWI 95
||| ||| ||| |||

RESULT 3
US-08 467-023-3
Sequence 3, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-02RCPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 92.6% Score 100 DB 37 Length 374
Best Local Similarity 90.0% Pred. No. 1.4e-08
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 72 VNPAQGLRYGATRSRLWI 95
||| ||| ||| |||

RESULT 3
US-08 467-023-3
Sequence 3, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-02RCPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 92.6% Score 100 DB 37 Length 374
Best Local Similarity 90.0% Pred. No. 1.4e-08
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 72 VNPAQGLRYGATRSRLWI 95
||| ||| ||| |||

RESULT 3
US-08 467-023-3
Sequence 3, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-02RCPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 92.6% Score 100 DB 37 Length 374
Best Local Similarity 90.0% Pred. No. 1.4e-08
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

CY 1 VNPAQGLRYGATRSRLWI 20
||| ||| ||| |||
DB 72 VNPAQGLRYGATRSRLWI 95
||| ||| ||| |||

RESULT 3
US-08 467-023-3
Sequence 3, Application US/58467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F
```



```

? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 26;
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunological Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Cate E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 US02 (IM:080CE02)
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 97:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 370 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-06-467-023-97

Query Match 90.7%, Score 98; DB 3; Length 370;
Best Local Similarity 85.0%, Pred. No 30-08;
Matches 10; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY : VNPAQTLYGATRSLSW: 20
||| |||||
Db 72 VNPTGTLRYGATREKALW: 91

RESULT 3
US-08-290-448A-80
? Sequence 80, Application US/08290448A
? Patent No. 5676954
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Rafnar, Thorunn
? APPLICANT: Kuo, Mei-Chang
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/529,951

```

```

? FILING DATE: May 29, 1990
? APPLICATION NUMBER: US 07/525,365
? FILING DATE: March 17, 1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragouras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-018CN
? TELEPHONE: (617)227-7400
? TELEFAX: (617)227-7400
? INFORMATION FOR SEQ ID NO: 80:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 388 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: Protein
? US-08-290-448A-80

Query Match 73.1%, Score 79; DB 1; Length 388;
Best Local Similarity 70.0%, Pred. No 4.2e-05;
Matches 14; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY : VNPAQTLYGATRSLSW: 20
||| |||||
Db 90 VNPKGTLREGATGSRPLW: 109

RESULT 6
US-08-290-448A-80
? Sequence 80, Application US/08290448A
? Patent No. 5698204
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Rafnar, Thorunn
? APPLICANT: Kuo, Mei-Chang
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: May 29, 1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: March 17, 1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragouras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-018CN
? TELEPHONE: (617)227-7400
? TELEFAX: (617)227-5941
? INFORMATION FOR SEQ ID NO: 80:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 388 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-290-448A-80

```

Query Match 73.1% Score 99, IP 11, Length 188,  
 Best Local Similarity 70.0%, Pred. No. 4, 24-65,  
 Matches 14, Conservative 3, Mismatches 3, Indels 0, Gaps 0,  
 QY 1 VNPACTRYGATRSLSW 20  
 Db 90 VNPKEGTJREGATQRPPLW 109

RESULT 7  
 US-09-175-069A-80  
 ? Sequence 80, Application US/08175069A  
 ? Patent No. 574761  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Ratnat, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Urtica  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS DOS  
 ? SOFTWARE: Patent In Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/175,069A  
 ? FILING DATE: December 29, 1993  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 07/523,951  
 ? FILING DATE: May 29, 1990  
 ? APPLICATION NUMBER: US 07/125,165  
 ? FILING DATE: March 17, 1989  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Amy E. Mandragouras  
 ? REGISTRATION NUMBER: 36,207  
 ? REFERENCE/DOCKET NUMBER: IMI 0140V  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617)227-7400  
 ? TELEFAX: (617)227-5941  
 ? INFORMATION FOR SEQ ID NO: 80:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 388 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 ? US-09-175-069A-80

Query Match 73.1% Score 99, IP 11, Length 188,  
 Best Local Similarity 70.0%, Pred. No. 4, 24-65,  
 Matches 14, Conservative 3, Mismatches 3, Indels 0, Gaps 0,  
 QY 1 VNPACTRYGATRSLSW 20  
 Db 90 VNPKEGTJREGATQRPPLW 109

RESULT 8  
 US-09-461-939B-80  
 ? Sequence 80, Application US/08461939B  
 ? Patent No. 5335019  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Ratnat, Thorunn  
 ? APPLICANT: Kuo, Wei-chang

? TITLE OF INVENTION: Methods For Treating Sensitivity To A  
 ? TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epit  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS DOS  
 ? SOFTWARE: Patent In Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/461,939B  
 ? FILING DATE:  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 08/464,000  
 ? FILING DATE: 05 JUN-1995  
 ? APPLICATION NUMBER: US 08/290,448  
 ? FILING DATE: 15 AUG 1994  
 ? APPLICATION NUMBER: US 07/529,951  
 ? FILING DATE: 29 MAY-1990  
 ? APPLICATION NUMBER: US 07/325,365  
 ? FILING DATE: 17 MAR-1989  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Amy E. Mandragouras  
 ? REGISTRATION NUMBER: 36,207  
 ? REFERENCE/DOCKET NUMBER: IMI-018NDV  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617)227-7400  
 ? TELEFAX: (617)227-4214  
 ? INFORMATION FOR SEQ ID NO: 80:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 388 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 ? US-09-461-939B-80

Query Match 73.1% Score 99, IP 11, Length 188,  
 Best Local Similarity 70.0%, Pred. No. 4, 24-65,  
 Matches 14, Conservative 3, Mismatches 3, Indels 0, Gaps 0,

QY 1 VNPACTRYGATRSLSW 20  
 Db 90 VNPKEGTJREGATQRPPLW 109

RESULT 9  
 US-09-464-000-80  
 ? Sequence 80, Application US/08464000  
 ? Patent No. 533520  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Ratnat, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS DOS

1 SOFTWARE: PatentIn Release #1.0, Version #1.25  
2 CURRENT APPLICATION DATA: US/08/464,000  
3 APPLICATION NUMBER: US/08/464,000  
4 FILING DATE: 05-JUN-1995  
5 PRIOR APPLICATION DATA:  
6 APPLICATION NUMBER: US 08/230,448  
7 FILING DATE: 15-AUG-1994  
8 APPLICATION NUMBER: US 07/523,951  
9 FILING DATE: 29-MAY-1990  
10 APPLICATION NUMBER: US 07/325,365  
11 FILING DATE: 17-MAR-1989  
12 ATTORNEY/AGENT INFORMATION:  
13 NAME: Amy E. Mandragouras  
14 REGISTRATION NUMBER: 36,207  
15 REFERENCE/DOCKET NUMBER: IM-018CN  
16 TELECOMMUNICATION INFORMATION:  
17 TELEPHONE: (617)227-7400  
18 TELEFAX: (617)227-5941  
19 INFORMATION FOR SEQ ID NO: 80:  
20 SEQUENCE CHARACTERISTICS:  
21 LENGTH: 388 amino acids  
22 TYPE: amino acid  
23 TOPOLOGY: linear  
24 MOLECULE TYPE: protein  
25 US-08-464-000-80

Query Match 73.0% Score 69; DB 4; Length 388;  
Best Local Similarity 70.2% Pred. No. 4,26,05;  
Matches 14; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY : VNPAQTILRYGATRSRLW: 20  
DB : VNPAQTILRYGATRSRLW: 109

RESULT 10  
US-08-290-448A-78  
1 Sequence 78, Application US/08290448A  
2 Patent No. 5676954  
3 GENERAL INFORMATION:  
4 APPLICANT: Rogers, Bruce  
5 APPLICANT: Klapper, David G.  
6 APPLICANT: Rafnar, Thorunn  
7 APPLICANT: Kuo, Mei-chang  
8 TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
9 NUMBER OF SEQUENCES: 93  
10 CORRESPONDENCE ADDRESS:  
11 ADDRESSEE: LAHIVE & COCKFIELD  
12 STREET: 60 State Street, suite 510  
13 City: Boston  
14 STATE: Massachusetts  
15 COUNTRY: USA  
16 ZIP: 02109-1875  
17 COMPUTER READABLE FORM:  
18 MEDIUM TYPE: floppy disk  
19 COMPUTER: IBM PC compatible  
20 OPERATING SYSTEM: PC-DOS/MS-DOS  
21 SOFTWARE: PatentIn Release #1.0, Version #1.25  
22 CURRENT APPLICATION DATA:  
23 APPLICATION NUMBER: US/08/230,448A  
24 FILING DATE: August 15, 1994  
25 PRIOR APPLICATION DATA:  
26 APPLICATION NUMBER: US 07/523,951  
27 FILING DATE: May 29, 1990  
28 APPLICATION NUMBER: US 07/325,365  
29 FILING DATE: March 17, 1989  
30 ATTORNEY/AGENT INFORMATION:  
31 NAME: Amy E. Mandragouras  
32 REGISTRATION NUMBER: 36,207  
33 REFERENCE/DOCKET NUMBER: IM-018CN  
34 TELECOMMUNICATION INFORMATION:  
35 TELEPHONE: (617)227-7400  
36 TELEFAX: (617)227-5941

1 INFORMATION FOR SEQ ID NO: 78:  
2 SEQUENCE CHARACTERISTICS:  
3 LENGTH: 383 amino acids  
4 TYPE: amino acid  
5 TOPOLOGY: linear  
6 MOLECULE TYPE: protein  
7 US-08-290-448A-78  
8 Query Match 63.0% Score 69; DB 1; Length 383;  
9 Best Local Similarity 63.2% Pred. No. 0,0027;  
10 Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;  
11 QY 2 NPAPGTLRYGATRSRLW: 20  
12 DB 91 NPKEGTLPFGAQNRPDW: 109  
13 RESULT 11  
14 US-08-290-448A-78  
15 Sequence 79, Application US/08190448A  
16 Patent No. 5698204  
17 GENERAL INFORMATION:  
18 APPLICANT: Rogers, Bruce  
19 APPLICANT: Klapper, David G.  
20 APPLICANT: Rafnar, Thorunn  
21 APPLICANT: Kuo, Mei-chang  
22 TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
23 NUMBER OF SEQUENCES: 93  
24 CORRESPONDENCE ADDRESS:  
25 ADDRESSEE: LAHIVE & COCKFIELD  
26 STREET: 60 State Street, suite 510  
27 City: Boston  
28 STATE: Massachusetts  
29 COUNTRY: USA  
30 ZIP: 02109-1875  
31 COMPUTER READABLE FORM:  
32 MEDIUM TYPE: floppy disk  
33 COMPUTER: IBM PC compatible  
34 OPERATING SYSTEM: PC-DOS/MS-DOS  
35 SOFTWARE: PatentIn Release #1.0, Version #1.25  
36 CURRENT APPLICATION DATA:  
37 APPLICATION NUMBER: US/08/290,448A  
38 FILING DATE: August 15, 1994  
39 PRIOR APPLICATION DATA:  
40 APPLICATION NUMBER: US 07/523,951  
41 FILING DATE: May 29, 1990  
42 APPLICATION NUMBER: US 07/325,365  
43 FILING DATE: March 17, 1989  
44 ATTORNEY/AGENT INFORMATION:  
45 NAME: Amy E. Mandragouras  
46 REGISTRATION NUMBER: 36,207  
47 REFERENCE/DOCKET NUMBER: IM-018CN  
48 TELECOMMUNICATION INFORMATION:  
49 TELEPHONE: (617)227-7400  
50 TELEFAX: (617)227-5941  
51 INFORMATION FOR SEQ ID NO: 78:  
52 SEQUENCE CHARACTERISTICS:  
53 LENGTH: 383 amino acids  
54 TYPE: amino acid  
55 TOPOLOGY: linear  
56 MOLECULE TYPE: protein  
57 US-08-290-448A-78

Query Match 63.0% Score 69; DB 1; Length 383;  
Best Local Similarity 63.2% Pred. No. 0,0027;  
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 NPAPGTLRYGATRSRLW: 20  
DB 91 NPKEGTLPFGAQNRPDW: 109

RESULT 12

US-08-175-069A 78  
 ? Sequence 78, Application US/08175069A  
 ? Patent No. 5776761  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rafnar, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: A. Allergenic Proteins from Ragweed and Uses  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: Patent In Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08175069A  
 ? FILING DATE: December 29, 1993  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 07/529,951  
 ? FILING DATE: May 29, 1990  
 ? APPLICATION NUMBER: US 07/325,365  
 ? FILING DATE: March 17, 1989  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Amy E. Mandragoras  
 ? REGISTRATION NUMBER: 36,297  
 ? REFERENCE/DOCKET NUMBER: IM: 0150V  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617)227-7400  
 ? TELEFAX: (617)227-5941  
 ? INFORMATION FOR SEQ ID NO: 78:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 183 amino acids  
 ? TYPE: amio acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 ? US 08 175 069A 78

Query Match 63.04, Score 68, DB 1, Length 183;  
 Best Local Similarity 63.23, Pred. No. 63027,  
 Matches 12, Conservative 2, Mismatches 5, Indels 0.

QY 2 NPAGTILRYGATRSRLWI 20  
 |||||  
 DB 91 NPKGTILRFGAQRPLNI 109

RESULT 13  
 US-08-461-939B-78  
 ? Sequence 78, Application: US/08461939B  
 ? Patent No. 6335013  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rafnar, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: Methods For Treating sensitivity To A  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 28 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08461939B  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/464,000  
 FILING DATE: 05 JUN 1995  
 APPLICATION NUMBER: US 08/290,448  
 FILING DATE: 15 AUG 1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29 MAY 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragoras  
 REGISTRATION NUMBER: 36,297  
 REFERENCE/DOCKET NUMBER: IM: 018CNDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-4214  
 INFORMATION FOR SEQ ID NO: 78:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amio acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-461-939B-78

Query Match 61.04, Score 68, DB 4, Length 383;  
 Best Local Similarity 61.23, Pred. No. 63027,  
 Matches 12, Conservative 2, Mismatches 5, Indels 0.

QY 2 NPAGTILRYGATRSRLWI 20  
 |||||  
 DB 91 NPKGTILRFGAQRPLNI 109

RESULT 14  
 US-08-464-000-78  
 ? Sequence 78, Application: US/08464000  
 ? Patent No. 6335026  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rafnar, Thorunn  
 ? APPLICANT: Kuo, Wei-chang  
 ? TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: Patent In Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08464,000  
 ? FILING DATE: 05-JUN 1995  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 08/290,448  
 ? FILING DATE: 15 AUG 1994  
 ? APPLICATION NUMBER: US 07/529,951  
 ? FILING DATE: 29 MAY 1990  
 ? APPLICATION NUMBER: US 07/325,365

```

: FILING DATE: 17-MAR-1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IM1-018CN2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)227-5941
: INFORMATION FOR SEQ ID NO: 78:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 387 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-06-464-460-78

Query Match 63.0% Score 68; DB 1; Length 387;
Best Local Similarity 63.2% Pred. No. 0.0027;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 NPAPGTLRYGATRSRLWI 20
DB 91 NPKEGTLRFGAQNRPLWI 109

RESULT 15
US-08-290-448A-72
: Sequence 72, Application US/08290448A
: Patent No. 5676954
: GENERAL INFORMATION:
: APPLICANT: Rogers, Bruce
: APPLICANT: Klapper, David G.
: APPLICANT: Rafter, Thorunn
: APPLICANT: Kuo, Mei-chang
: TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: LAHIVE & COCKFIELD
: STREET: 60 State Street, suite 510
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109-1875
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent in Release #1.0, Version #1.2
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/290,448A
: FILING DATE: August 15, 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: May 29, 1993
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: March 17, 1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IM1-018CN
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)227-5941
: INFORMATION FOR SEQ ID NO: 72:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 387 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-290-448A-72

Query Match 63.0% Score 68; DB 1; Length 387;
Best Local Similarity 63.2% Pred. No. 0.0027;

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Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 NPAPGTLRYGATRSRLWI 20
DB 90 NPKEGTLRFGAQNRPLWI 108

Search completed: October 23, 2003, 09:55:20
Job time : 12.4 secs

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GenCore version 5.1.6  
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CM protein - protein search, using sw model:

Run on: October 23, 2003, 09:50:14 : Search time 19.75 seconds  
(without alignments)  
169,980 Million cell updates/sec

Title: US-09-202-464-9

Perfect score: 101

Sequence: 1 GATERSLWIFSKNLIK 20

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 629382 seqs, 16740630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA:

- 1: /cgn2\_6/ptodata1/pubpaa/US07\_PUBCOMB.pep
- 2: /cgn2\_6/ptodata1/pubpaa/PCN\_NEW\_PUB.pep
- 3: /cgn2\_6/ptodata1/pubpaa/US06\_NEW\_PUB.pep
- 4: /cgn2\_6/ptodata1/pubpaa/US06\_PUBCOMB.pep
- 5: /cgn2\_6/ptodata1/pubpaa/US07\_NEW\_PUB.pep
- 6: /cgn2\_6/ptodata1/pubpaa/PCNUS\_PUBCOMB.pep
- 7: /cgn2\_6/ptodata1/pubpaa/US08\_NEW\_PUB.pep
- 8: /cgn2\_6/ptodata1/pubpaa/US08\_PUBCOMB.pep
- 9: /cgn2\_6/ptodata1/pubpaa/US09A\_PUBCOMB.pep
- 10: /cgn2\_6/ptodata1/pubpaa/US09A\_PUBCOMB.pep
- 11: /cgn2\_6/ptodata1/pubpaa/US09\_PUBCOMB.pep
- 12: /cgn2\_6/ptodata1/pubpaa/US09\_NEW\_PUB.pep
- 13: /cgn2\_6/ptodata1/pubpaa/US10A\_PUBCOMB.pep
- 14: /cgn2\_6/ptodata1/pubpaa/US10B\_PUBCOMB.pep
- 15: /cgn2\_6/ptodata1/pubpaa/US10\_PUBCOMB.pep
- 16: /cgn2\_6/ptodata1/pubpaa/US10\_NEW\_PUB.pep
- 17: /cgn2\_6/ptodata1/pubpaa/US10\_NEW\_PUB.pep
- 18: /cgn2\_6/ptodata1/pubpaa/US10\_PUBCOMB.pep

Prod. No. is the number of results predicted by query to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	101	100.0	375	11	US-09-847-208-58
2	89	88.1	346	11	US-09-847-208-57
3	69	88.1	367	11	US-09-847-208-109
4	84	83.2	374	11	US-09-847-208-68
5	63	62.4	15	12	US-10-354-240-27
6	62	61.4	15	12	US-10-354-240-39
7	62	61.4	134	12	US-10-354-240-3
8	59	58.4	397	11	US-09-847-208-10
9	57	56.4	392	11	US-09-847-208-16
10	56	55.4	396	11	US-09-847-208-13
11	52	51.5	398	11	US-09-847-208-14
12	48	47.5	20	12	US-10-354-240-11
13	48	47.5	33	12	US-10-354-240-4
14	46	45.5	397	11	US-09-847-208-19
15	45	44.6	15	12	US-10-354-240-26

16	41.5	41.1	1068	12	US-10-143-030A-8
17	41	40.6	24	10	US-09-978-1838-197
18	41	40.6	24	15	US-10-211-512-197
19	42.5	40.1	545	10	US-09-978-295A-254
20	40.5	40.1	545	10	US-09-978-697-254
21	40.5	40.1	545	10	US-09-978-192A-254
22	40.5	40.1	545	10	US-09-999-832A-254
23	40.5	40.1	545	11	US-09-978-189-254
24	40.5	40.1	545	11	US-09-978-608A-254
25	40.5	40.1	545	11	US-09-978-585A-254
26	40.5	40.1	545	11	US-09-978-131A-254
27	40.5	40.1	545	11	US-09-978-423A-254
28	42.5	40.1	545	11	US-09-978-564A-254
29	40.5	40.1	545	11	US-09-999-833A-254
30	40.5	40.1	545	11	US-09-981-915A-254
31	40.5	40.1	545	11	US-09-978-824-254
32	40.5	40.1	545	11	US-09-978-585A-254
33	40.5	40.1	545	11	US-09-978-423A-254
34	40.5	40.1	545	11	US-09-978-193A-254
35	42.5	40.1	545	11	US-09-999-830A-254
36	40.5	40.1	545	11	US-09-978-757A-254
37	40.5	40.1	545	11	US-09-978-187B-254
38	40.5	40.1	545	11	US-09-978-643A-254
39	40.5	40.1	545	12	US-09-978-375A-254
40	40.5	40.1	545	12	US-09-978-188A-254
41	40.5	40.1	545	12	US-09-978-298A-254
42	40.5	40.1	545	12	US-10-143-031A-254
43	40.5	40.1	545	12	US-10-002-967A-254
44	40.5	40.1	545	12	US-10-017-083A-254
45	40.5	40.1	545	12	US-10-143-030A-254

ALIGNMENTS

RESULT 1

US-09-847-208-58  
; Sequence 58, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daobang  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IMMEDIATELY ALLERGIC DISEASES  
; FILE REFERENCE: US67,032A  
; CURRENT APPLICATION NUMBER: US/09/847,108  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 58  
; TYPE: PR  
; LENGTH: 375  
; ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-58

Query Match: 100.0% Score: 101, DB: 11, Length: 375  
Best Local Similarity: 100.0% Prod. No.: 20, Gaps: 0  
Matches: 20, Conservative: 0, Mismatches: 0, Indels: 0

QV 1 GATERSLWIFSKNLIK 20

||||| ||| |||||  
DB 92 GATERSLWIFSKNLIK 101

RESULT 2

US-09-847-208-47  
; Sequence 67, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daobang

```

? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
? FILE OF INVENTION: 198-MEDIATED ALLERGIC DISEASES
? FILE REFERENCE: UC67.002A
? CURRENT APPLICATION NUMBER: US/09/847,208
? CURRENT FILING DATE: 2001-05-01
? NUMBER OF SEQ ID NOS: 177
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 67
? TYPE: PRT
? ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match      88.1%  Score 697  PB 117  Length 174
Best Local Similarity 80.0%  Pred. No. 1 80-0%
Matches 167  Conservative 47  Mismatches 67  Indels 0  Gaps 0

CY      1  GATERSLWIFPSKNLKL 20
      |||||
DB      61  GATRKALWIFSONMNLK 80
      |||||

RESULT 3
US-09-847-208-103
? Sequence 109, Application US/C9847208
? Publication No. US0003082190A1
? GENERAL INFORMATION:
? APPLICANT: Saxov, Andrew
? APPLICANT: Zhang, Ke
? APPLICANT: Zhu, Daohong
? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
? FILE OF INVENTION: 198-MEDIATED ALLERGIC DISEASES
? FILE REFERENCE: UC67.002A
? CURRENT APPLICATION NUMBER: US/C97/847,208
? CURRENT FILING DATE: 2001-05-01
? NUMBER OF SEQ ID NOS: 177
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 103
? LENGTH: 167
? TYPE: PRT
? ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match      88.1%  Score 897  PB 117  Length 174
Best Local Similarity 80.0%  Pred. No. 1 80-0%
Matches 167  Conservative 47  Mismatches 67  Indels 0  Gaps 0

CY      1  GATERSLWIFPSKNLKL 20
      |||||
DB      62  GATRKALWIFSONMNLK 101
      |||||

RESULT 4
US-09-847-208-68
? Sequence 68, Application US/C9847208
? Publication No. US0003082190A1
? GENERAL INFORMATION:
? APPLICANT: Saxov, Andrew
? APPLICANT: Zhang, Ke
? APPLICANT: Zhu, Daohong
? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
? FILE OF INVENTION: 198-MEDIATED ALLERGIC DISEASES
? FILE REFERENCE: UC67.002A
? CURRENT APPLICATION NUMBER: US/C97/847,208
? CURRENT FILING DATE: 2001-05-01
? NUMBER OF SEQ ID NOS: 177
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 68
? LENGTH: 174
? TYPE: PRT
? ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

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Query Match      81.2%  Score 847  PB 117  Length 174
Best Local Similarity 80.0%  Pred. No. 1 120-0%
Matches 167  Conservative 27  Mismatches 27  Indels 0  Gaps 0

CY      1  GATERSLWIFPSKNLKL 20
      |||||
DB      82  GATFDRPLWIFSONMNLK 101
      |||||

RESULT 5
US-10-354-240-27
? Sequence 27, Application US/10354240
? Publication No. US2003185847A1
? GENERAL INFORMATION:
? APPLICANT: Sogo, Toshiro
? APPLICANT: Kure, Akimori
? APPLICANT: Datiki, Kazuo
? APPLICANT: Iwara, Akiko
? APPLICANT: Kino, Kohsuke
? TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis
? FILE REFERENCE: SPO-103D
? CURRENT APPLICATION NUMBER: US/10/354,240
? PRIOR FILING DATE: 2003-01-29
? PRIOR APPLICATION NUMBER: PCT/JP97/00340
? PRIOR FILING DATE: 1997-03-10
? PRIOR APPLICATION NUMBER: US 09/142,524
? NUMBER OF SEQ ID NOS: 174
? SOFTWARE: Patent in version 3.1
? SEQ ID NO 27
? LENGTH: 15
? TYPE: PRT
? ORGANISM: Cryptomeria japonica
? FEATURE:
? NAME/KEY: MISC FEATURE
? LOCATION: 11..104
? OTHER INFORMATION: 17411 Peptide, Figure 1, Row 13
US-10-354-240-27

Query Match      62.4%  Score 617  PB 127  Length 157
Best Local Similarity 30.0%  Pred. No. 0 0012%
Matches 127  Conservative 17  Mismatches 27  Indels 0  Gaps 0

CY      1  GATERSLWIFPSKN 14
      |||||
DB      1  GATFDRPLWIFSON 15
      |||||

RESULT 6
US-10-354-240-28
? Sequence 28, Application US/10354240
? Publication No. US2003185847A1
? GENERAL INFORMATION:
? APPLICANT: Sogo, Toshiro
? APPLICANT: Kure, Akimori
? APPLICANT: Datiki, Kazuo
? APPLICANT: Iwara, Akiko
? APPLICANT: Kino, Kohsuke
? TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis
? FILE REFERENCE: SPO-103D
? CURRENT APPLICATION NUMBER: US/10/354,240
? CURRENT FILING DATE: 2003-01-29
? PRIOR APPLICATION NUMBER: PCT/JP97/00340
? PRIOR FILING DATE: 1997-03-10
? PRIOR APPLICATION NUMBER: US 09/142,524
? PRIOR FILING DATE: 1998-09-09
? NUMBER OF SEQ ID NOS: 174
? SOFTWARE: Patent in version 3.1
? SEQ ID NO 28
? LENGTH: 15
? TYPE: PRT
? ORGANISM: Cryptomeria japonica
? FEATURE:

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NAME/KEY: MISC FEATURE  
 LOCATION: (1).....(15)  
 OTHER INFORMATION: Cryj: peptide, Figure 1, Row 14  
 US-10-354 240-28

Query Match 61.4%; Score 62; DB 12; Length 15;  
 Best Local Similarity 80.0%; Pred. No. 0.0017;  
 Matches 12; Conservative 1; Mismatches 0; Gaps 0;

QY 6 RSLW:IFSKNNIKL 20  
 | | | | | | | | | | | | | | |  
 DB : RPLW:IFSGNNIKL 15

## RESULT 7

US-10-354-240 3  
 Sequence 3, Application US/10354240  
 Publication No. US20030185847A1  
 GENERAL INFORMATION:  
 APPLICANT: Sene, Toshio  
 APPLICANT: Kure, Akimori  
 APPLICANT: Dai, Ki, Kazuo  
 APPLICANT: Iwama, Akiko  
 APPLICANT: Kino, Koshuke  
 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 CURRENT APPLICATION NUMBER: US/10/354,240  
 CURRENT FILING DATE: 2003-01-29  
 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 PRIOR FILING DATE: 1997-03-10  
 PRIOR APPLICATION NUMBER: US 09/142,524  
 PRIOR FILING DATE: 1998-09-09  
 NUMBER OF SEQ ID NOS: 174  
 SOFTWARE: Patent in version 3.1  
 SEQ ID NO 3  
 LENGTH: 134  
 TYPE: PRT  
 ORGANISM: Cryptosporidia japonica  
 US-10-354-240 3

Query Match 61.4%; Score 62; DB 12; Length 134;  
 Best Local Similarity 80.0%; Pred. No. 0.0167;  
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 RSLW:IFSKNNIKL 20  
 | | | | | | | | | | | | | | |  
 DB 7: RPLW:IFSGNNIKL 87

## RESULT 8

US-09-847-208-17  
 Sequence 17, Application US/99847208  
 Publication No. US20030082192A1  
 GENERAL INFORMATION:  
 APPLICANT: Saxon, Andrew  
 APPLICANT: Zhang, Ke  
 APPLICANT: Zhu, Baocheng  
 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 TITLE OF INVENTION: 19E-MEDIATED ALLERGIC DISEASES  
 FILE REFERENCE: US67.002A  
 CURRENT APPLICATION NUMBER: US/09/847,208  
 CURRENT FILING DATE: 2001-05-01  
 NUMBER OF SEQ ID NOS: 177  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 17  
 LENGTH: 197  
 TYPE: PRT  
 ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-17

Query Match 58.4%; Score 59; DB 11; Length 197;  
 Best Local Similarity 55.0%; Pred. No. 0.15;  
 Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 CATRERSLWIFSKNNIKL 20  
 | | | | | | | | | | | | | | |  
 DB 109 CATDRPLWIFORDVIVL 128

## RESULT 9

US-09-847-208-16  
 Sequence 16, Application US/99847208  
 Publication No. US20030082192A1  
 GENERAL INFORMATION:  
 APPLICANT: Saxon, Andrew  
 APPLICANT: Zhang, Ke  
 APPLICANT: Zhu, Baocheng  
 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 TITLE OF INVENTION: 19E-MEDIATED ALLERGIC DISEASES  
 FILE REFERENCE: US67.002A  
 CURRENT APPLICATION NUMBER: US/09/847,208  
 CURRENT FILING DATE: 2001-05-01  
 NUMBER OF SEQ ID NOS: 177  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 16  
 LENGTH: 392  
 TYPE: PRT  
 ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-16

Query Match 56.4%; Score 57; DB 11; Length 392;  
 Best Local Similarity 50.0%; Pred. No. 0.12;  
 Matches 10; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

QY 1 CATRERSLWIFSKNNIKL 20  
 | | | | | | | | | | | | | | |  
 DB 109 GAQNRPLWIFRDVIVL 128

## RESULT 10

US-09-847-208-13  
 Sequence 13, Application US/99847208  
 Publication No. US20030082192A1  
 GENERAL INFORMATION:  
 APPLICANT: Saxon, Andrew  
 APPLICANT: Zhang, Ke  
 APPLICANT: Zhu, Baocheng  
 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 TITLE OF INVENTION: 19E-MEDIATED ALLERGIC DISEASES  
 FILE REFERENCE: US67.002A  
 CURRENT APPLICATION NUMBER: US/09/847,208  
 CURRENT FILING DATE: 2001-05-01  
 NUMBER OF SEQ ID NOS: 177  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 13  
 LENGTH: 396  
 TYPE: PRT  
 ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-13

Query Match 55.4%; Score 56; DB 11; Length 396;  
 Best Local Similarity 50.0%; Pred. No. 0.47;  
 Matches 10; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 CATRERSLWIFSKNNIKL 20  
 | | | | | | | | | | | | | | |  
 DB 108 GAQNRPLWIFRDVIVL 127

## RESULT 11

US-09-847-208-14  
 Sequence 14, Application US/99847208  
 Publication No. US20030082192A1  
 GENERAL INFORMATION:  
 APPLICANT: Saxon, Andrew  
 APPLICANT: Zhang, Ke



APPLICANT: Zhu, Daocheng  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: US67,002A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2003-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 14  
LENGTH: 398  
TYPE: PPT  
ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-14

Query Match: 51.5%; Score 52; DB 11; Length 398;  
Best Local Similarity 52.6%; Pred. No. 2.1;  
Matches 10; Conservative 3; Mismatches 6; Indels 3; Gaps 0;

QY 2 ATRERSLWIFSKNLNKL 20

DB 11 AQRRLWIFKRNWVHL 129

RESULT 12  
US-10-354-240-11  
Sequence 11, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:

APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akio  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kousuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00747  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 11  
LENGTH: 20  
TYPE: PPT  
ORGANISM: Cryptomeria japonica  
US-10-354-240-11

Query Match: 47.5%; Score 48; DB 11; Length 397;  
Best Local Similarity 100.0%; Pred. No. 0.457  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 IFSKNLNKL 20

DB 1 IFSKNLNKL 10

RESULT 13  
US-10-354-240-4  
Sequence 4, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:

APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akio  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kousuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00747

PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 4  
LENGTH: 31  
TYPE: PPT  
ORGANISM: Cryptomeria japonica  
US-10-354-240-4

Query Match: 47.5%; Score 48; DB 12; Length 31;  
Best Local Similarity 100.0%; Pred. No. 0.71;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 IFSKNLNKL 20

DB 1 IFSKNLNKL 10

RESULT 14  
US-09-847-288-15  
Sequence 15, Application US/09847208  
Publication No. US2003008290A1  
GENERAL INFORMATION:

APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Daocheng  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: US67,002A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 15  
LENGTH: 397  
TYPE: PPT  
ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-288-15

Query Match: 45.5%; Score 46; DB 11; Length 397;  
Best Local Similarity 47.4%; Pred. No. 20;  
Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 ATRERSLWIFSKNLNKL 20

DB 11 AQRRLWIFKRNWVHL 128

RESULT 15  
US-10-354-240-26  
Sequence 26, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:

APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akio  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kousuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00747  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 26  
LENGTH: 15  
TYPE: PPT

1 ORGANISM: Cryptosporidia Japonica  
2 FEATURE:  
3 NAME/KEY: MISC FEATURE  
4 LOCATION: 111-1115  
5 OTHER INFORMATION: Cys11 peptide, Figure 1, Row 12  
6 US\_10-354-240-26  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 : Serial time 11.4 seconds  
Without alignment  
At 210 Million cell updates/sec

Title: US-09-202-464-9

Perfect score: 101

Sequence: : GATPERSLWLPKSNLKLK 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Seatched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 42877

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 9 : /cgn2\_6/ptodata/2/1aa/6G\_GCM0 pep.\*
- 10 : /cgn2\_6/ptodata/2/1aa/6H\_GCM0 pep.\*

ited. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	89	88.1	367	US-08-467-023-95	Sequence 95, Appl
2	89	88.1	370	US-08-467-023-95	Sequence 95, Appl
3	84	83.2	20	US-08-467-023-95	Sequence 95, Appl
4	84	83.2	60	US-08-467-023-95	Sequence 95, Appl
5	84	83.2	374	US-08-467-023-95	Sequence 95, Appl
6	59	58.4	388	US-08-230-448A-74	Sequence 74, Appl
7	59	58.4	388	US-08-230-448A-74	Sequence 74, Appl
8	59	58.4	388	US-08-175-069A-76	Sequence 76, Appl
9	59	58.4	388	US-08-175-069A-76	Sequence 76, Appl
10	59	58.4	388	US-08-461-939B-78	Sequence 78, Appl
11	56	55.4	383	US-08-230-448A-74	Sequence 74, Appl
12	56	55.4	383	US-08-230-448A-74	Sequence 74, Appl
13	56	55.4	383	US-08-175-069A-76	Sequence 76, Appl
14	56	55.4	383	US-08-461-939B-78	Sequence 78, Appl
15	56	55.4	383	US-08-464-000-76	Sequence 76, Appl
16	56	55.4	387	US-08-230-448A-74	Sequence 74, Appl
17	56	55.4	387	US-08-230-448A-74	Sequence 74, Appl
18	56	55.4	387	US-08-175-069A-76	Sequence 76, Appl
19	56	55.4	387	US-08-461-939B-78	Sequence 78, Appl
20	56	55.4	387	US-08-464-000-76	Sequence 76, Appl
21	52	51.5	391	US-08-230-448A-74	Sequence 74, Appl
22	52	51.5	391	US-08-230-448A-74	Sequence 74, Appl
23	52	51.5	391	US-08-175-069A-76	Sequence 76, Appl
24	52	51.5	391	US-08-461-939B-78	Sequence 78, Appl
25	52	51.5	391	US-08-464-000-76	Sequence 76, Appl
26	52	51.5	398	US-08-230-448A-74	Sequence 74, Appl
27	52	51.5	398	US-08-230-448A-74	Sequence 74, Appl

28	52	51.5	338	1	US-08-175-069A-76	Sequence 76, Appl
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35	46	45.5	337	4	US-08-464-000-76	Sequence 76, Appl
36	46	45.5	124	4	US-08-232-93A-32880	Sequence 32880, A
37	46	45.5	124	3	US-08-467-023-31	Sequence 31, Appl
38	41.5	41.1	1280	2	US-08-162-081B-36	Sequence 36, Appl
39	41.5	41.1	1280	2	US-08-750-872-36	Sequence 36, Appl
40	41.5	41.1	1280	3	US-08-085-357-36	Sequence 36, Appl
41	41	40.6	24	3	US-08-177-249-197	Sequence 197, Appl
42	40.5	40.1	1568	3	US-08-190-874C-11	Sequence 11, Appl
43	40.5	40.1	1568	4	US-08-263-772-11	Sequence 11, Appl
44	40.5	40.1	1569	2	US-08-162-081B-37	Sequence 37, Appl
45	40.5	40.1	1569	2	US-08-780-872-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1  
US-08-467-023-95  
Sequence 95, Application US/08467023  
Patent No. 6090396  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin D.  
APPLICANT: Pollock, Colette  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuo, Mei-Chang  
APPLICANT: Yeung, Siu-moi H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides Pro-  
TEC OF INVENTION: Japanese Patent Application  
NUMBER OF SEQUENCES: 241  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08467023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 38/330,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025, 6 US02 (IMI-028CPD2)  
TELEPHONE: 1617, 227-7400  
TELEFAX: 1617, 227-5941  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: Linear  
MOLECULE TYPE: protein  
US-08-467-023-95

Query Match 88.1%; Score 89; DB 1; Length 367;  
 Best Local Similarity 80.0%; Pred. No. Gaps 0;  
 Matches 16; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

CY 1 GATRSRLWIFSKNLNKL 20  
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 DB 82 GATREKALWIFSQNNIKL 10;

## RESULT 2

US-08-467-023-97  
 Sequence 97, Application US/08467023

Patent No. 690386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bord, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.;  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26;  
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA

ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,572

REFERENCE/DOCKET NUMBER: 025.6 USL2 (INT. 028CPD2)

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 97:

SEQUENCE CHARACTERISTICS:

LENGTH: 310 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-08-467-023-97

## Query Match

Best Local Similarity 88.1%; Score 89; DB 1; Length 367;  
 Matches 16; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

CY 1 GATRSRLWIFSKNLNKL 20  
 ||||| |||||  
 DB 82 GATREKALWIFSQNNIKL 10;

## RESULT 3

US-08-467-023-97  
 Sequence 97, Application US/08467023

Patent No. 690386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bord, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.;  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26;  
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA

ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,572

REFERENCE/DOCKET NUMBER: 025.6 USL2 (INT. 028CPD2)

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 97:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-08-467-023-97

## Query Match

Best Local Similarity 83.3%; Score 84; DB 1; Length 20;  
 Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

CY 1 GATRSRLWIFSKNLNKL 20  
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 DB 1 GATREKALWIFSQNNIKL 20

## RESULT 4

US-08-467-023-97

Sequence 97, Application US/08467023

Patent No. 690386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bord, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

```

1  TITLE OF INVENTION: Japanese Cedar Pollen
2  NUMBER OF SEQUENCES: 261
3  CORRESPONDENCE ADDRESS:
4  ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
5  STREET: 610 Lincoln St
6  CITY: Waltham
7  STATE: MA
8  COUNTRY: USA
9  ZIP: 02154
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: Floppy disk
12 COMPUTER: IBM PC compatible
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14 SOFTWARE: PatentIn Release #1.0, Version #1.25
15 CURRENT APPLICATION DATA:
16 APPLICATION NUMBER: US/08/467,023
17 FILING DATE: June 6, 1995
18 CLASSIFICATION: 424
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: 08/350,225
21 FILING DATE: December 6, 1994
22 ATTORNEY/AGENT INFORMATION:
23 NAME: Jane E. Remillard
24 REGISTRATION NUMBER: 38,872
25 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
26 TELECOMMUNICATION INFORMATION:
27 TELEPHONE: (617) 227-7400
28 TELEFAX: (617) 227-5941
29 INFORMATION FOR SEQ ID NO: 62:
30 SEQUENCE CHARACTERISTICS:
31 LENGTH: 60 amino acids
32 TYPE: amino acid
33 TOPOLOGY: linear
34 MOLECULE TYPE: peptide
35 FRAGMENT TYPE: internal
36 US-08-467-023-62

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Query Match      83.2%  Score 847  DB 3; Length 60;
Best Local Similarity 80.0%  Pred. No. 1.4e-07;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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DB      1 GATDRPLWIFSGNKL 20

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RESULT 5
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1  Sequence 2, Application US/08457023
2  Patent No. 6090356
3  GENERAL INFORMATION:
4  APPLICANT: Griffith, Irwin J.;
5  APPLICANT: Pollock, Joanne;
6  APPLICANT: Bord, Julian F.;
7  APPLICANT: Garman, Richard D.;
8  APPLICANT: Kuo, Wei-Chang;
9  APPLICANT: Yeung, Siu-mei H.;
10 APPLICANT: Brauer, Andrew;
11 APPLICANT: Exley, Mark A.;
12 APPLICANT: Powers, Steven P.
13 TITLE OF INVENTION: Allergenic Proteins And Peptides From
14 NUMBER OF SEQUENCES: 261
15 CORRESPONDENCE ADDRESS:
16 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
17 STREET: 610 Lincoln St
18 CITY: Waltham
19 STATE: MA
20 COUNTRY: USA
21 ZIP: 02154
22 COMPUTER READABLE FORM:
23 MEDIUM TYPE: Floppy disk
24 COMPUTER: IBM PC compatible

```

```

1  OPERATING SYSTEM: PC-DOS/MS-DOS
2  SOFTWARE: PatentIn Release #1.0, Version #1.25
3  CURRENT APPLICATION DATA:
4  APPLICATION NUMBER: US/08/467,023
5  FILING DATE: June 6, 1995
6  CLASSIFICATION: 424
7  PRIOR APPLICATION DATA:
8  APPLICATION NUMBER: 08/350,225
9  FILING DATE: December 6, 1994
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Jane E. Remillard
12 REGISTRATION NUMBER: 38,872
13 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (617) 227-7400
16 TELEFAX: (617) 227-5941
17 INFORMATION FOR SEQ ID NO: 2:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 374 amino acids
20 TYPE: amino acid
21 TOPOLOGY: linear
22 MOLECULE TYPE: protein
23 US-08-467-023-2

```

```

Query Match      83.2%  Score 847  DB 3; Length 374;
Best Local Similarity 80.0%  Pred. No. 1.6e-06;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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QY      1 GATERSLWIFSKNKL 20
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DB      82 GATDRPLWIFSGNKL 10;

```

```

RESULT 6
US-08-230-448A-80
1  Sequence 80, Application US/08292448A
2  Patent No. 5676954
3  GENERAL INFORMATION:
4  APPLICANT: Rogers, Bruce
5  APPLICANT: Klapper, David G.
6  APPLICANT: Rafnar, Thorunn
7  APPLICANT: Kuo, Wei-Chang
8  TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
9  NUMBER OF SEQUENCES: 93
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: Larive & Cockfield
12 STREET: 60 State Street, suite 510
13 CITY: Boston
14 STATE: Massachusetts
15 COUNTRY: USA
16 ZIP: 02109-1875
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE: Floppy disk
19 COMPUTER: IBM PC compatible
20 OPERATING SYSTEM: PC-DOS/MS-DOS
21 SOFTWARE: PatentIn Release #1.0, Version #1.25
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER: US/08/290,448A
24 FILING DATE: August 15, 1994
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER: 09 07/529,951
27 FILING DATE: May 29, 1990
28 APPLICATION NUMBER: US 07/325,365
29 FILING DATE: March 17, 1989
30 ATTORNEY/AGENT INFORMATION:
31 NAME: Amy E. Mandragoras
32 REGISTRATION NUMBER: 36,207
33 REFERENCE/DOCKET NUMBER: IMI-018CN
34 TELECOMMUNICATION INFORMATION:
35 TELEPHONE: (617)227-7400
36 TELEFAX: (617)227-5941
37 INFORMATION FOR SEQ ID NO: 80:
38 SEQUENCE CHARACTERISTICS:

```

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; LENGTH: 388 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US 08-290 448A-80

Query Match          58.4%  Score 59; DB 1; Length 388;
Best Local Similarity 55.0%  Pred. No. 0.033;
Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 GATRESLWIFSKNLNKL 20
    ||||| ||||| |||||
Db 100 GATCRPLWIFQDMIVL 119

RESULT 7
US 08-290-448A 80
; Sequence 80, Application US/08290448A
; Patent No. 5699204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/175,069A
; FILING DATE: December 29, 1999
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,165
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-0180V
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 80:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 388 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-175-069A 80

Query Match          58.4%  Score 59; DB 1; Length 388;
Best Local Similarity 55.0%  Pred. No. 0.033;
Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 GATRESLWIFSKNLNKL 20
    ||||| ||||| |||||
Db 100 GATCRPLWIFQDMIVL 119

RESULT 9
US-08-461-939B-80
; Sequence 80, Application US/08461939B
; Patent No. 6335019
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Methods For Treating Sensitivity To A
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 26 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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1  COMPUTER:  IBM PC compatible
2  OPERATING SYSTEM:  PC-DOS/MS-DOS
3  SOFTWARE:  Patent in Release #1.0, Version #1.25
4  CURRENT APPLICATION DATA:
5  APPLICATION NUMBER:  US/08/461,939B
6  FILING DATE:
7  PRIOR APPLICATION DATA:
8  APPLICATION NUMBER:  US 08/464,500
9  FILING DATE:  05-JUN-1995
10 APPLICATION NUMBER:  US 08/290,448
11 FILING DATE:  15-AUG-1994
12 APPLICATION NUMBER:  US 07/529,951
13 FILING DATE:  29-MAY-1990
14 APPLICATION NUMBER:  US 07/325,365
15 FILING DATE:  17-MAR-1989
16 ATTORNEY/AGENT INFORMATION:
17 NAME:  Amy E. Mandragouras
18 REGISTRATION NUMBER:  36,207
19 REFERENCE/DOCKET NUMBER:  IMI 0180CNIV
20 TELECOMMUNICATION INFORMATION:
21 TELEPHONE:  (617)227-7400
22 TELEFAX:  (617)742-4214
23 INFORMATION FOR SEQ ID NO:  80:
24 SEQUENCE CHARACTERISTICS:
25 LENGTH:  399 amino acids
26 TYPE:  amino acid
27 TOPOLOGY:  linear
28 MOLECULE TYPE:  protein
29 US-08-461 939B-80

```

```

Query Match      58.4%; Score 59; DB 4; Length 388;
Best Local Similarity 55.0%; Pred. No. 0.03;
Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

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QY      1  GATRSRLWIFSKNINIKL 20
      ||||| ||||| |||||
DB      100  GATGRRFLWIFQRCMIIVL 119

```

```

RESULT 10
US-08-464-000-80
1  Sequence 80, Application US/08464000
2  Patent No. 6335020
3  GENERAL INFORMATION:
4  APPLICANT:  Rogers, Bruce
5  APPLICANT:  Klappert, David G.
6  APPLICANT:  Rainar, Thorunn
7  APPLICANT:  Kuo, Wei-chang
8  TITLE OF INVENTION:  Allergenic Peptides from Fajarded Pollen
9  NUMBER OF SEQUENCES:  93
10 CORRESPONDENCE ADDRESS:
11 ADDRESS:  LAHIVE & COCKFIELD, LLP
12 STREET:  60 State Street
13 CITY:  Boston
14 STATE:  Massachusetts
15 COUNTRY:  USA
16 ZIP:  02109-1875
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE:  Floppy disk
19 COMPUTER:  IBM PC compatible
20 OPERATING SYSTEM:  PC-DOS/MS-DOS
21 SOFTWARE:  Patent in Release #1.0, Version #1.25
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER:  US/08/464,000
24 FILING DATE:  05-JUN-1995
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER:  US 08/290,448
27 FILING DATE:  15-AUG-1994
28 APPLICATION NUMBER:  US 07/529,951
29 FILING DATE:  29-MAY-1990
30 APPLICATION NUMBER:  US 07/325,365
31 FILING DATE:  17-MAR-1989
32 ATTORNEY/AGENT INFORMATION:

```

```

1  NAME:  Amy E. Mandragouras
2  REGISTRATION NUMBER:  36,207
3  REFERENCE/DOCKET NUMBER:  IMI 0180CN2
4  TELECOMMUNICATION INFORMATION:
5  TELEPHONE:  (617)227-7400
6  TELEFAX:  (617)227-5941
7  INFORMATION FOR SEQ ID NO:  80:
8  SEQUENCE CHARACTERISTICS:
9  LENGTH:  398 amino acids
10 TYPE:  amino acid
11 TOPOLOGY:  linear
12 MOLECULE TYPE:  protein
13 US-08-464-000-80

```

```

Query Match      58.4%; Score 59; DB 4; Length 388;
Best Local Similarity 55.0%; Pred. No. 0.03;
Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

```

```

QY      1  GATRSRLWIFSKNINIKL 20
      ||||| ||||| |||||
DB      100  GATGRRFLWIFQRCMIIVL 119

```

```

RESULT 11
US-08-290-448A-78
1  Sequence 78, Application US/08290448A
2  Patent No. 5676954
3  GENERAL INFORMATION:
4  APPLICANT:  Rogers, Bruce
5  APPLICANT:  Klappert, David G.
6  APPLICANT:  Rainar, Thorunn
7  APPLICANT:  Kuo, Wei-chang
8  TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
9  NUMBER OF SEQUENCES:  93
10 CORRESPONDENCE ADDRESS:
11 ADDRESS:  LAHIVE & COCKFIELD
12 STREET:  60 State Street, Suite 610
13 CITY:  Boston
14 STATE:  Massachusetts
15 COUNTRY:  USA
16 ZIP:  02109-1875
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE:  Floppy disk
19 COMPUTER:  IBM PC compatible
20 OPERATING SYSTEM:  PC-DOS/MS-DOS
21 SOFTWARE:  Patent in Release #1.0, Version #1.25
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER:  US/08/290,448A
24 FILING DATE:  August 15, 1994
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER:  US 07/529,951
27 FILING DATE:  May 29, 1990
28 APPLICATION NUMBER:  US 07/325,365
29 FILING DATE:  March 17, 1989
30 ATTORNEY/AGENT INFORMATION:
31 NAME:  Amy E. Mandragouras
32 REGISTRATION NUMBER:  36,207
33 REFERENCE/DOCKET NUMBER:  IMI-0180CN
34 TELECOMMUNICATION INFORMATION:
35 TELEPHONE:  (617)227-7400
36 TELEFAX:  (617)227-5941
37 INFORMATION FOR SEQ ID NO:  78:
38 SEQUENCE CHARACTERISTICS:
39 LENGTH:  393 amino acids
40 TYPE:  amino acid
41 TOPOLOGY:  linear
42 MOLECULE TYPE:  protein
43 US-08-290-448A 78

```

```

Query Match      55.4%; Score 56; DB 1; Length 383;
Best Local Similarity 50.0%; Pred. No. 0.11;
Matches 10; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

```





FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM1-018UNDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)742-4214  
 INFORMATION FOR SEQ ID NO: 78:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-464-939R-78

Query Match 55.4%; Score 56; DB 4; Length 183;  
 Best Local Similarity 50.0%; Pred. No. 0.11;  
 Matches 10; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

CQ 1 GATREPSLWIFSKNKL 20  
 DB 100 GAAQNRLWIFERDVIRL 119

RESULT 15  
 US-08-464-000-78  
 Sequence 78, Application US/09464000  
 Patent No. 6,195,920  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klepper, David G.  
 APPLICANT: Rathar, Thorunn  
 APPLICANT: Kuo, Wei-Chang  
 TITLE OF INVENTION: Allergenic Peptides from Raywood Pollen  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: IAHIVE & COCKFIELD, LLP  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1575  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/464,000  
 FILING DATE: 05-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/290,448  
 FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM1-018UNDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 78:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amino acid

TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-464-000-78  
 Query Match 55.4%; Score 56; DB 4; Length 183;  
 Best Local Similarity 50.0%; Pred. No. 0.11;  
 Matches 10; Conservative 5; Mismatches 5; Indels 0; Gaps 0;  
 CQ 1 GATREPSLWIFSKNKL 20  
 DB 100 GAAQNRLWIFERDVIRL 119  
 Search completed: October 23, 2003, 09:55:21  
 Job time: 12.4 secs



Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinoori

APPLICANT: Dairiki, Kazuo

APPLICANT: Iwama, Akiko

APPLICANT: Kino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

PRIOR FILING DATE: 2003-03-29

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patent in version 3.1

SEQ ID NO 4

LENGTH: 32

TYPE: PRT

ORGANISM: Cryptosporidia japonica

US-10-354-240-4

Query Match 100.0% Score 102 DB 12 Length 31

Best Local Similarity 100.0% Pred. No. 2, 9+10

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy : IFSKNINIKLNMPYIAGNK 20

||||| ||||| |||||

D6 : IFSKNINIKLNMPYIAGNK 20

RESULT 3

US-09-847-208-58

Sequence 38, Application US/09847206

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67-002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 58

LENGTH: 175

TYPE: PRT

ORGANISM: Chamaecyparis obtusa (Japanese Cypress)

US-09-847-208-58

Query Match 100.0% Score 122 DB 11 Length 175

Best Local Similarity 100.0% Pred. No. 4, 8+9

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy : IFSKNINIKLNMPYIAGNK 20

||||| ||||| |||||

D6 : IFSKNINIKLNMPYIAGNK 111

RESULT 4

US-09-847-208-109

Sequence 109, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67-002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 109

LENGTH: 367

TYPE: PRT

ORGANISM: Juniperus ashei (Crank white cedar)

US-09-847-208-109

Query Match 82.4% Score 84 DB 11 Length 367

Best Local Similarity 75.0% Pred. No. 5e-06

Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0

Qy : IFSKNINIKLNMPYIAGNK 20

||||| ||||| |||||

D6 : IFSKNINIKLNMPYIAGNK 111

RESULT 5

US-09-847-208-67

Sequence 67, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67-002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 67

LENGTH: 346

TYPE: PRT

ORGANISM: Cupressus arizonica

US-09-847-208-67

Query Match 79.4% Score 81 DB 11 Length 346

Best Local Similarity 75.0% Pred. No. 1.5e-05

Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0

Qy : IFSKNINIKLNMPYIAGNK 20

||||| ||||| |||||

D6 : IFSKNINIKLNMPYIAGNK 90

RESULT 6

US-10-354-240-3

Sequence 3, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinoori

APPLICANT: Dairiki, Kazuo

APPLICANT: Iwama, Akiko

APPLICANT: Kino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 2003-03-29

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patent in version 3.1

SEQ ID NO 3

LENGTH: 134

TYPE: PRT

ORGANISM: Cryptosporidia japonica

```
US-10-354-240-3
Query Match 75.58; Score 77; DB 12; Length 134;
Best Local Similarity 75.08; Pred. No. 238-05;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IFSKNNIKLNMPLY:AGNK 20
   ||| ||| ||| ||| |||
DB 78 IFSONNMKIKLMPY:AGYK 97

RESULT 7
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US2003008290A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Dacheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: US67,002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; PRIOR FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptosporidia japonica (Japanese cedar)
US-09-847-208-68

Query Match 75.58; Score 77; DB 12; Length 134;
Best Local Similarity 75.08; Pred. No. 238-05;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IFSKNNIKLNMPLY:AGNK 10
   ||| ||| ||| ||| |||
DB 92 IFSONNMKIKLMPY:AGYK 111

RESULT 8
US-10-354-240-29
; Sequence 29, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Soro, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR FILING DATE: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptosporidia japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-115;
; OTHER INFORMATION: Cry1 peptide, Figure 1, Row 15
US-10-354-240-29

Query Match 58.84; Score 60; DB 12; Length 134;
Best Local Similarity 73.38; Pred. No. 238-05;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IFSKNNIKLNMPLY:AGNK 15
   ||| ||| ||| ||| |||
DB 92 IFSONNMKIKLMPY:AGYK 111

RESULT 9
US-10-354-240-30
; Sequence 30, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Soro, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR FILING DATE: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptosporidia japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-115;
; OTHER INFORMATION: Cry1 peptide, Figure 1, Row 15
US-10-354-240-30

Query Match 57.84; Score 59; DB 12; Length 15;
Best Local Similarity 73.38; Pred. No. 238-05;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 6 LNIKLNMPLY:AGNK 20
   ||| ||| ||| ||| |||
DB 1 LNIKLNMPY:AGYK 15

RESULT 10
US-10-236-508-30
; Sequence 30, Application US/10246508
; Publication No. US20030167512A1
; GENERAL INFORMATION:
; APPLICANT: Nanto H. Kanagai
; APPLICANT: Guy S. Jellard-Giorra
; APPLICANT: Robert L. Erwin
; APPLICANT: David R. McGee
; TITLE OF INVENTION: METHOD OF DETERMINING THE PRESENCE OF A TRAIT IN A PLANT BY
; TITLE OF INVENTION: TRANSECTING A NUCLEIC ACID SEQUENCE OF A DONOR PLANT INTO A
; TITLE OF INVENTION: DIFFERENT HOST PLANT IN A POSITIVE ORIENTATION
; FILE REFERENCE: CB801C137JUSC5
; CURRENT APPLICATION NUMBER: US/10/236,508
; CURRENT FILING DATE: 2002-09-06
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 30
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-236-508-30

Query Match 49.08; Score 50; DB 12; Length 220;
Best Local Similarity 47.13; Pred. No. 238-05;
Matches 43; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
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QY 4 KLNKLNKLNPLV:AGNK 20  
 Db 130 KNRQVRANP:V:CGNK 146  
 RESULT 11  
 US-09-815-242-5665  
 ? Sequence 5665, Application US/09815242  
 ? Patent No. US00020061569A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Haselbeck, Robert  
 ? APPLICANT: Ohlsen, Karl L.  
 ? APPLICANT: Zyskind, Judith W.  
 ? APPLICANT: Wall, Daniel  
 ? APPLICANT: Trawick, John D.  
 ? APPLICANT: Carr, Grant J.  
 ? APPLICANT: Yamamoto, Robert T.  
 ? APPLICANT: Xu, H. Howard  
 ? TITLE OF INVENTION: Identification of Essential Genes in  
 ? FILE REFERENCE: EXTRA-21A  
 ? CURRENT APPLICATION NUMBER: US/09/815,242  
 ? PRIOR FILING DATE: 2001-03-21  
 ? PRIOR APPLICATION NUMBER: 60/191,078  
 ? PRIOR FILING DATE: 2000-03-21  
 ? PRIOR APPLICATION NUMBER: 60/206,849  
 ? PRIOR FILING DATE: 2000-05-23  
 ? PRIOR APPLICATION NUMBER: 60/267,727  
 ? PRIOR FILING DATE: 2000-05-26  
 ? PRIOR APPLICATION NUMBER: 60/242,578  
 ? PRIOR FILING DATE: 2000-10-23  
 ? PRIOR APPLICATION NUMBER: 60/253,625  
 ? PRIOR FILING DATE: 2000-11-27  
 ? PRIOR APPLICATION NUMBER: 60/757,931  
 ? PRIOR FILING DATE: 2000-12-22  
 ? PRIOR APPLICATION NUMBER: 60/269,104  
 ? PRIOR FILING DATE: 2001-02-16  
 ? NUMBER OF SEQ ID NOS: 14110  
 ? SOFTWARE: FastSeq for Windows Version 4.0  
 ? SEQ ID NO: 5665  
 ? LENGTH: 565  
 ? TYPE: PRT  
 ? ORGANISM: Staphylococcus aureus  
 US-09-815-242-5665  
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 Best Local Similarity: 50.0%; Pred. No. 9.7;  
 Matches: 8; Conservative: 5; Mismatches: 3; Indels: 0; Gaps: 0;

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 Db 254 VFSEKLNIVLKLP:HV 272  
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 US-10-354-240-2  
 ? Sequence 2, Application US/10354240  
 ? Publication No. US000103542A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Sone, Toshiro  
 ? APPLICANT: Kume, Akio  
 ? APPLICANT: Cairiki, Kazuo  
 ? APPLICANT: Iwama, Akiyo  
 ? APPLICANT: Kiro, Kousuke  
 ? TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 ? FILE REFERENCE: SPC 103D1  
 ? CURRENT APPLICATION NUMBER: US/10/354,240  
 ? CURRENT FILING DATE: 2003-01-29  
 ? PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ? PRIOR FILING DATE: 1997-03-10  
 ? PRIOR APPLICATION NUMBER: US 09/142,524  
 ? PRIOR FILING DATE: 1998-09-09  
 ? NUMBER OF SEQ ID NOS: 174  
 ? SOFTWARE: Patent in Version 3.1  
 ? SEQ ID NO: 2  
 ? LENGTH: 105  
 ? TYPE: PRT  
 ? ORGANISM: Cryptosporidia japonica  
 US-10-354-240-2  
 Query Match: 43.1% Score 44; DB 12; Length 105;  
 Best Local Similarity: 66.7%; Pred. No. 6.8;  
 Matches: 9; Conservative: 12; Mismatches: 2; Indels: 0; Gaps: 0;

QY 9 KLNKLNKLNPLV:AGNK 20  
 Db 73 KLNKLNKLNPLV:AGNK 84  
 RESULT 14  
 US-09-939-980-333  
 ? Sequence 333, Application US/09939980  
 ? Patent No. US00020061569A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Haselbeck, Robert  
 ? APPLICANT: Ohlsen, Karl L.  
 ? APPLICANT: Zyskind, Judith W.  
 ? APPLICANT: Wall, Daniel  
 ? APPLICANT: Trawick, John D.  
 ? APPLICANT: Carr, Grant J.  
 ? APPLICANT: Yamamoto, Robert T.  
 ? APPLICANT: Xu, H. Howard  
 ? TITLE OF INVENTION: Identification of Essential Genes in  
 ? FILE REFERENCE: EXTRA-21A  
 ? CURRENT APPLICATION NUMBER: US/09/939,980  
 ? PRIOR FILING DATE: 2001-03-21  
 ? PRIOR APPLICATION NUMBER: 60/191,078

Knowles, David  
 Lonetto, Michael  
 Nicholas, Richard  
 Pratt, Julie  
 Reichard, Richard  
 Rosenberq, Martin  
 Ward, Judith  
 TITLE OF INVENTION: NO. US2002029429A1a1: Pickaryotic Polynucleotides,  
 NUMBER OF SEQUENCES: 534  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: SmithKline Beecham Corporation  
 STREET: 709 Swedeland Road  
 CITY: King of Prussia  
 STATE: PA  
 COUNTRY: USA  
 ZIP: 19406-0939  
 (COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/939,980  
 FILING DATE: 27-Aug-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/936,145  
 FILING DATE: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Gerni, Edward R.  
 REGISTRATION NUMBER: 38,891  
 REFERENCE/DOCKET NUMBER: P50849  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 610-270-4475  
 TELEFAX: 610-270-5690  
 TELEX: <Unknown>  
 INFORMATION FOR SEQ ID NO: 333:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 129 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: Protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 333:  
 US 09-939-980-333

Query Match 43.1%; Score 44; DB No. Length 100  
 Best Local Similarity 50.0%; Pred. No. 44; Length 100  
 Matches 8; Conservative 4; Mismatches 4; Gaps 0

QY : DESKNNIKLNPLY 16  
 DB 84 VESKAIVLXXPIRV 99

Result 15  
 US 09-915 242-13093  
 Sequence 13093, Application US/09815242  
 Patent No. US20020061569A1  
 GENERAL INFORMATION:  
 APPLICANT: Haseibeck, Robert  
 APPLICANT: Chlisen, Karl L.  
 APPLICANT: Zyskind, Judith W.  
 APPLICANT: Wall, Daniel  
 APPLICANT: Trawick, John D.  
 APPLICANT: Carr, Grant J.  
 APPLICANT: Yamamoto, Robert T.  
 APPLICANT: Xu, H. Howard  
 TITLE OF INVENTION: Identification of Essential Genes in  
 TITLE OF INVENTION: Prokaryotes  
 FILE REFERENCE: ELITRA 011A  
 CURRENT APPLICATION NUMBER: US/09/815,242

CURRENT FILING DATE: 2001-01-21  
 PRIOR APPLICATION NUMBER: 60/191,078  
 PRIOR FILING DATE: 2000-03-21  
 PRIOR APPLICATION NUMBER: 60/206,848  
 PRIOR FILING DATE: 2000-05-23  
 PRIOR APPLICATION NUMBER: 60/207,727  
 PRIOR FILING DATE: 2000-05-26  
 PRIOR APPLICATION NUMBER: 60/242,578  
 PRIOR FILING DATE: 2000-10-23  
 PRIOR APPLICATION NUMBER: 60/263,625  
 PRIOR FILING DATE: 2000-11-27  
 PRIOR APPLICATION NUMBER: 60/257,931  
 PRIOR FILING DATE: 2000-12-22  
 PRIOR APPLICATION NUMBER: 60/262,305  
 PRIOR FILING DATE: 2001-02-16  
 NUMBER OF SEQ ID NOS: 14110  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 13093  
 LENGTH: 627  
 TYPE: PRT  
 ORGANISM: Staphylococcus aureus  
 US-09-915-242-13093  
 Query Match 43.1%; Score 44; DB No. Length 627  
 Best Local Similarity 66.7%; Pred. No. 50  
 Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0

QY 4 KNLNIKLNMPYLAG 18  
 DB 212 KRLNKKLEQPTTAG 226

Search completed: October 23, 2003, 11:01:44  
 Job time : 21.75 secs

GenCore version 5.1.0  
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LM Protein Protein search, using sw model

Run on: October 23, 2003, 09:41:09 / Search time 101.45 Seconds

Perfect score: 102  
Sequence: 1 IFSKXLMK.NMP.VINDX 20  
100.000 alignment  
100.000 alignment

Title: US-09-202-464-10

Perfect score: 102

Sequence: 1 IFSKXLMK.NMP.VINDX 20

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 5728757 seqs, 959918778 residues

Total number of hits satisfying chosen parameters: 928059

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0.1  
Maximum Match 100%  
Listing first 45 summaries

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31: /cgn2\_6/ptodata/2/paa/US09 COMB pep.  
32: /cgn2\_6/ptodata/2/paa/US09 COMB pep.

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	102	100.0	20 15 US-09-142-524B-11	Sequence 11, Appl
3	102	100.0	20 15 US-09-142-524C-11	Sequence 11, Appl
4	102	100.0	20 15 US-09-142-524D-11	Sequence 11, Appl
5	102	100.0	20 15 US-09-202-464-10	Sequence 10, Appl
6	102	100.0	20 29 US-10-354-240-11	Sequence 11, Appl
7	102	100.0	31 15 US-09-142-524A-4	Sequence 4, Appl
8	102	100.0	31 15 US-09-142-524B-4	Sequence 4, Appl
9	102	100.0	31 15 US-09-142-524C-4	Sequence 4, Appl
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11	102	100.0	31 15 US-09-142-524E-4	Sequence 4, Appl
12	102	100.0	31 29 US-10-354-240-4	Sequence 11, Appl
13	102	100.0	354 16 US-09-202-464-11	Sequence 11, Appl
14	102	100.0	375 22 US-09-791-537-23A5	Sequence 23A, Appl
15	102	100.0	375 23 US-09-847-208-58	Sequence 58, Appl
16	102	100.0	375 23 US-09-847-208B-58	Sequence 58, Appl
17	102	100.0	375 23 US-09-433-819-14	Sequence 14, Appl
18	84	82.4	345 28 US-09-433-819-14	Sequence 14, Appl
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21	84	82.4	367 7 US-08-350-225-95	Sequence 95, Appl
22	84	82.4	367 8 US-08-467-006-95	Sequence 95, Appl
23	84	82.4	367 8 US-08-467-697-95	Sequence 95, Appl
24	84	82.4	367 8 US-08-468-940-95	Sequence 95, Appl
25	84	82.4	367 16 US-09-240-203-95	Sequence 95, Appl
26	84	82.4	367 16 US-09-240-203B-95	Sequence 95, Appl
27	84	82.4	367 16 US-09-240-203D-95	Sequence 95, Appl
28	84	82.4	367 18 US-09-433-819-4	Sequence 4, Appl
29	84	82.4	367 23 US-09-791-537-8700	Sequence 8700, A
30	84	82.4	367 23 US-09-847-208-109	Sequence 109, Appl
31	84	82.4	370 6 US-08-226-248A-97	Sequence 97, Appl
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35	84	82.4	370 8 US-08-468-940-97	Sequence 97, Appl
36	84	82.4	370 16 US-09-240-203-97	Sequence 97, Appl
37	84	82.4	370 16 US-09-240-203B-97	Sequence 97, Appl
38	84	82.4	370 16 US-09-240-203D-97	Sequence 97, Appl
39	81	79.4	346 23 US-09-847-208-67	Sequence 67, Appl
40	81	79.4	346 23 US-09-847-208B-67	Sequence 67, Appl
41	77	75.5	20 3 US-07-938-900A-33	Sequence 33, Appl
42	77	75.5	20 6 US-08-226-248A-33	Sequence 33, Appl
43	77	75.5	20 7 US-08-350-225-33	Sequence 33, Appl
44	77	75.5	20 8 US-08-467-006-33	Sequence 33, Appl
45	77	75.5	20 8 US-08-467-697-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1  
US-09-142-524A-11  
Sequence 11, Application US/09142524A  
GENERAL INFORMATION:  
APPLICANT: Kume, Toshio  
INVENTOR: Kume, Akimori  
APPLICANT: Cairiki, Kazuo  
APPLICANT: Iwama, Kazuo  
APPLICANT: Kino, Kousuke  
TITLE OF INVENTION: Peptide-based Immunotherapeutic Agent for Treating  
TITLE OF INVENTION: Allergic Diseases  
FILE REFERENCE: SPC-103  
CURRENT APPLICATION NUMBER: US/09/142-524A  
CURRENT FILING DATE: 1999-01-04  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: Patent Ver. 2.0  
SEQ ID NO 11  
LENGTH: 20  
TYPE: PK  
ORGANISM: Cryptosporidia japonica  
US-09-142-524A-11

Query Match: 100.0%; Score 102; DB 10; Length 20;  
 Best Local Similarity: 100.0%; Pred. No. 1,26-03;  
 Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 : IFSKLNKLNKMPYIAGNK 20  
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 DB 1 : IFSKLNKLNKMPYIAGNK 20

## RESULT 4

US-09-142-524B-11  
 Sequence 11: Application US/09142524B  
 GENERAL INFORMATION:  
 APPLICANT: Sono, Toshio  
 APPLICANT: Kume, Akimori  
 APPLICANT: Daijiki, Kazuo  
 APPLICANT: Iwama, Akiko  
 APPLICANT: Kino, Kobsuke  
 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 FILE REFERENCE: SEQ-103  
 CURRENT APPLICATION NUMBER: US/09/142524B  
 PRIOR FILING DATE: 1998-09-09  
 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 PRIOR FILING DATE: 1997-03-10  
 NUMBER OF SEQ ID NOS: 174  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 1:  
 LENGTH: 20  
 TYPE: PRT  
 ORGANISM: *Cryptosporidia japonica*  
 US-09-142-524B-11

Query Match: 100.0%; Score 102; DB 10; Length 20;  
 Best Local Similarity: 100.0%; Pred. No. 1,26-03;  
 Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 : IFSKLNKLNKMPYIAGNK 20  
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 DB 1 : IFSKLNKLNKMPYIAGNK 20

## RESULT 5

US-09-142-524B-11  
 Sequence 11: Application US/09142524B  
 GENERAL INFORMATION:  
 APPLICANT: Sono, Toshio  
 APPLICANT: Kume, Akimori  
 APPLICANT: Daijiki, Kazuo  
 APPLICANT: Iwama, Akiko  
 APPLICANT: Kino, Kobsuke  
 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disca  
 FILE REFERENCE: SEQ-103  
 CURRENT APPLICATION NUMBER: US/09/142524B  
 PRIOR FILING DATE: 1998-09-09  
 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 PRIOR FILING DATE: 1997-03-10  
 NUMBER OF SEQ ID NOS: 174  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 1:  
 LENGTH: 20  
 TYPE: PRT  
 ORGANISM: *Cryptosporidia japonica*  
 US-09-142-524B-11

Query Match: 100.0%; Score 102; DB 10; Length 20;  
 Best Local Similarity: 100.0%; Pred. No. 1,26-03;  
 Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 : IFSKLNKLNKMPYIAGNK 20  
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 DB 1 : IFSKLNKLNKMPYIAGNK 20

## RESULT 4

US-09-142-524D-11  
 Sequence 11: Application US/09142524D  
 GENERAL INFORMATION:  
 APPLICANT: Sono, Toshio  
 APPLICANT: Kume, Akimori  
 APPLICANT: Daijiki, Kazuo  
 APPLICANT: Iwama, Akiko  
 APPLICANT: Kino, Kobsuke  
 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis  
 FILE REFERENCE: SEQ-103  
 CURRENT APPLICATION NUMBER: US/09/142524D  
 PRIOR FILING DATE: 1998-09-09  
 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 PRIOR FILING DATE: 1997-03-10  
 NUMBER OF SEQ ID NOS: 174  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 1:  
 LENGTH: 20  
 TYPE: PRT  
 ORGANISM: *Cryptosporidia japonica*  
 US-09-142-524D-11

Query Match: 100.0%; Score 102; DB 10; Length 20;  
 Best Local Similarity: 100.0%; Pred. No. 1,26-03;  
 Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

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 DB 1 : IFSKLNKLNKMPYIAGNK 20

## RESULT 5

US-09-202-464-10  
 Sequence 10: Application US/09202464  
 GENERAL INFORMATION:  
 APPLICANT: Kino, Kobsuke  
 TITLE OF INVENTION: FEEL EPITOPE PEPTIDES  
 NUMBER OF SEQUENCES: 90  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Fish & Richardson P.O.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS Windows Version 2.0  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION NUMBER: US/09/202464  
 FILING DATE: 14-Dec-1998  
 APPLICATION NUMBER: JP 87151577  
 FILING DATE: 14-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: WO 89/020311  
 FILING DATE: 12-JUN-1997  
 APPLICATION NUMBER: JP 87151577  
 FILING DATE: 14-JUN-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Fraser, P. D., J.D., Janis K.  
 REGISTRATION NUMBER: 14,819  
 REFERENCE/DOCKET NUMBER: 06501-024001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 20 amino acids  
 TYPE: amino acid  
 TOPology: linear  
 Molecule type: prot-ein



LINE	NO	NO	DESCRIPTION	SEQ	NO	NO
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19 00 202 464 10

Query Match	100.03	Score 192	83.16	Length 20
Best Local Similarity	100.03	Pred. No	1.679	
Matches 20	Conservative	0	Mismatches 0	Indels

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QB      : FSKN..N:KLNMP:YIAGNK 20

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13  
14  
15  
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17

U.S. 100

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1 SEQUENCE 1; Application US/0354240
2 GENERAL INFORMATION:
3 APPLICANT: Soma, Toshio
4 APPLICANT: Kuwae, Akimichi
5 APPLICANT: Dairiki, Kazuo
6 APPLICANT: Tamae, Akiho
7 APPLICANT: Kino, Kohsuke
8 TITLE OF INVENTION: Peptide-Based Immunosensitization
9 FILE REFERENCE: SP0-03D1
10 CURRENT APPLICATION NUMBER: US/10354240
11 CURRENT FILING DATE: 2003-01-29
12 PRIOR APPLICATION NUMBER: PCT/JP97/0047
13 PRIOR FILING DATE: 1997-03-10
14 PRIOR APPLICATION NUMBER: US 09/142,524
15 PRIOR FILING DATE: 1998-09-09
16 NUMBER OF SEQ ID NOS: 174
17 SOFTWARE: Patent In version 3.1
18 SEQ ID NO 1:
19 LENGTH: 22
20 TYPE: PRT
21 CRYSTALINITY: Crystalline
22 MOLECULAR WEIGHT: 10354240

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Rest level Similarity	100.0	FB 29	100.0
variation	100.0	Misatches	0.0

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Q8      : IFSKXATKLNMPYAGNK 20

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12

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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```

1  SEQUENCE 4. APPLICATION US/09-142,524
2
3  GENERAL INFORMATION:
4
5  APPLICANT: Sano, Toshio
6  APPLICANT: Kume, Akimori
7  APPLICANT: Kuroki, Kazuo
8  APPLICANT: Iwara, Akiko
9  APPLICANT: Kikyo, Katsuke
10
11  TITLE OF INVENTION: Peptide-based immunotherapeutic agent for treating
12
13  FIELD OF INVENTION: Allergic Diseases
14
15  FILE REFERENCE: Docket No. SFC 103
16
17  CURRENT APPLICATION NUMBER: US/09-142,524
18
19  CURRENT FILING DATE: 1999-01-04
20
21  EARLIER APPLICATION NUMBER: 8/80/102
22
23  EARLIER FILING DATE: 1996-03-10
24
25  EARLIER APPLICATION NUMBER: PCT/JP96/0341
26
27  EARLIER FILING DATE: 1997-03-10
28
29  NUMBER OF SEQ ID NOS: 5
30
31  SOFTWARE: Patent In Ver. 2.0
32
33  SEQ ID NO: 1
34
35  LENGTH: 31
36
37  TYPE: PPT
38
39  ORGANISM: Human
40
41  FEATURE:
42
43  OTHER INFORMATION: Description of Invention in Japanese language
44  142,524-4

```



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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 :FSSKNNIKLNMPYIAGNK 20
   ||| ||| ||| |||
DB 31 :FSSKNNIKLNMPYIAGNK 90

RESULT 14
US-09-791-537-2385
: Sequence 2385, Application US/03791537
: GENERAL INFORMATION:
: APPLICANT: Biogen-ix, Inc
: APPLICANT: Derek, Derek
: APPLICANT: Danzer, Joseph
: TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMEB
: TITLE OF INVENTION: METHODS OF USE THEREOF
: FILE REFERENCE: 261/210
: CURRENT FILING DATE: 2001-02-22
: CURRENT APPLICATION NUMBER: US/09/791,537
: NUMBER OF SEQ ID NOS: 151055
: SOFTWARE: Patent version 3.0
: SEQ ID NO 2385
: LENGTH: 375
: TYPE: PRT
: ORGANISM: Chamaecyparis obtusa
US-09-791-537-2385

Query Match 100.0%; Score 102; DB 22; Length 375;
Best Local Similarity 100.0%; Pred.No. 3 30-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 :FSSKNNIKLNMPYIAGNK 20
   ||| ||| ||| |||
DB 31 :FSSKNNIKLNMPYIAGNK 111

RESULT 15
US-09-847-208-58
: Sequence 58, Application US/09847205
: GENERAL INFORMATION:
: APPLICANT: Saxon, Andrew
: APPLICANT: Zhang, Ke
: APPLICANT: Zhu, Daccheng
: TITLE OF INVENTION: FUSION MOLECULES AND PREPARATION OF
: TITLE OF INVENTION: TGF-MEDIATED ALLERGIC DISEASES
: FILE REFERENCE: J067,002A
: CURRENT APPLICATION NUMBER: US/09/847,114
: CURRENT FILING DATE: 2001-05-01
: NUMBER OF SEQ ID NOS: 177
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 58
: LENGTH: 375
: TYPE: PRT
: ORGANISM: Chamaecyparis obtusa (Japanese Cypress)
US-09-847-208-58

Query Match 100.0%; Score 102; DB 22; Length 375;
Best Local Similarity 100.0%; Pred.No. 3 30-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 :FSSKNNIKLNMPYIAGNK 20
   ||| ||| ||| |||
DB 31 :FSSKNNIKLNMPYIAGNK 111

Search completed: October 23, 2003, 10:52:17
CPU time : 171.5 secs

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GenCore version: 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

QM protein: protein search, using sw model

Run on: October 23, 2003, 09:43:24 ; Search time 6.5 seconds  
without alignments!  
134,650 Million cell updates/sec

Title: US-09-202-464-10

Perfect score: 102

Sequence: 1 IFSKXNLNIKWPLYIAGNK 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Sequences: 160715 seqs, 3401110 residues

Total number of hits satisfying chosen parameters: 160715

Minimum DP seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 3%  
Maximum Match 100%  
Listing first 45 summaries

Database :

- 1: /cgn2\_6/ptodata1/paa/pct NEW COMB pep:\*
- 2: /cgn2\_6/ptodata1/paa/US09 NEW COMB pep:\*
- 3: /cgn2\_6/ptodata1/paa/US07 NEW COMB pep:\*
- 4: /cgn2\_6/ptodata1/paa/US08 NEW COMB pep:\*
- 5: /cgn2\_6/ptodata1/paa/US09 NEW COMB pep:\*
- 6: /cgn2\_6/ptodata1/paa/US10 NEW COMB pep:\*
- 7: /cgn2\_6/ptodata1/paa/US06 NEW COMB pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	42.2	254	6	US-10-657-852-23
2	43	42.2	256	6	US-10-657-852-26
3	42	41.2	991	6	US-10-425-114A-548-1
4	41.5	40.7	784	6	US-10-456-947-46
5	41.5	40.7	784	7	US-60-497-611-25-1
6	41	40.2	175	5	US-09-801-945-1-1
7	41	40.2	347	6	US-10-425-114A-714-1
8	41	40.2	350	6	US-10-425-114A-5097-1
9	41	40.2	467	5	US-09-674-546A-2-15
10	41	40.2	467	5	US-09-674-546A-2-17
11	41	40.2	619	5	US-09-674-546A-2-9-1
12	41	40.2	619	5	US-09-674-546A-2-9-3
13	40	39.2	215	6	US-10-472-928-2384
14	40	39.2	277	6	US-10-657-852-19
15	40	39.2	277	6	US-10-657-852-20
16	40	39.2	281	6	US-10-657-852-18
17	40	39.2	281	6	US-10-657-852-26
18	39	38.2	202	7	US-60-490-890-830
19	39	38.2	262	6	US-10-657-852-24
20	39	38.2	408	6	US-10-425-114A-3739-2
21	39	38.2	884	5	US-09-721-456-222
22	39	38.2	884	5	US-09-502-4988-5
23	39	38.2	884	5	US-09-502-4248-5
24	39	38.2	929	6	US-10-330-773-277
25	38	37.3	269	6	US-10-472-928-1528
26	38	37.3	553	6	US-10-425-114A-38576

27	38	37.3	722	6	US-10-330-773-280	Sequence 280, App
28	38	37.3	755	6	US-10-473-551-986	Sequence 986, App
29	38	37.3	1042	7	US-60-490-890-2558	Sequence 2558, App
30	38	37.3	1274	5	US-09-581-286A-466	Sequence 466, App
31	38	37.3	1282	5	US-09-581-286A-465	Sequence 465, App
32	38	37.3	1312	5	US-09-581-286A-338	Sequence 338, App
33	37.5	36.8	303	6	US-10-425-114A-44398	Sequence 44398, A
34	37	36.3	124	6	US-10-425-114A-63831	Sequence 63831, A
35	37	36.3	228	6	US-10-472-928-1440	Sequence 1440, Ap
36	37	36.3	286	6	US-10-425-114A-49804	Sequence 49804, A
37	37	36.3	239	7	US-60-500-315-1223	Sequence 1223, Ap
38	37	36.3	316	6	US-10-343-650A-492	Sequence 492, App
39	37	36.3	510	6	US-10-425-114A-45687	Sequence 45687, A
40	37	36.3	512	6	US-10-425-114A-44614	Sequence 44614, A
41	37	36.3	513	6	US-10-425-114A-45855	Sequence 45855, A
42	37	36.3	604	5	US-09-674-546A-2515	Sequence 2515, Ap
43	37	36.3	654	5	US-09-674-546A-2517	Sequence 2517, Ap
44	37	36.3	604	5	US-09-674-546A-2519	Sequence 2519, Ap
45	37	36.3	975	5	US-09-597-516A-4695	Sequence 4695, Ap

ALIGNMENTS

RESULT 1  
US-10-657-852-23  
; Sequence 23, Application US/10657852  
; GENERAL INFORMATION:  
; APPLICANT: Demmer, Jeroen  
; APPLICANT: Shenk, Michael Andrew  
; APPLICANT: Hall, Claire  
; APPLICANT: Fish, Steven A  
; TITLE OF INVENTION: Antifreeze proteins isolated from forage  
; TITLE OF INVENTION: Grasses and methods for their use.  
; FILE REFERENCE: 11000.10700  
; CURRENT APPLICATION NUMBER: US/10/657,852  
; CURRENT FILING DATE: 2003-09-09  
; PRIOR APPLICATION NUMBER: 60/409,557  
; PRIOR FILING DATE: 2002-09-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: FastSeq for Windows Version: 4.0  
; SEQ ID NO 23  
; LENGTH: 254  
; TYPE: PRT  
; ORGANISM: Festuca arundinacea  
US-10-657-852-23

Query Match 42.2% Score 43; DB 6; Length 254;  
Best Local Similarity 42.8%; Pred. No. 56;  
Matches 9; Conservative 3; Indels 4; Gaps 1;  
QY 4 KNKIRK...NNFELIAGNK 20  
DB 113 KNKQVQKGTNNFELHMNR 133

RESULT 2  
US-10-657-852-25  
; Sequence 25, Application US/10657852  
; GENERAL INFORMATION:  
; APPLICANT: Demmer, Jeroen  
; APPLICANT: Shenk, Michael Andrew  
; APPLICANT: Hall, Claire  
; APPLICANT: Fish, Steven A  
; TITLE OF INVENTION: Antifreeze proteins isolated from forage  
; TITLE OF INVENTION: Grasses and methods for their use.  
; FILE REFERENCE: 11000.10700  
; CURRENT APPLICATION NUMBER: US/10/657,852  
; CURRENT FILING DATE: 2003-09-09  
; PRIOR APPLICATION NUMBER: 60/409,557  
; PRIOR FILING DATE: 2002-09-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: FastSeq for Windows Version 4.0

Query Match 42.2% Score 43; DB 6; Length 254;  
Best Local Similarity 42.8%; Pred. No. 56;  
Matches 9; Conservative 3; Indels 4; Gaps 1;  
QY 4 KNKIRK...NNFELIAGNK 20  
DB 113 KNKQVQKGTNNFELHMNR 133

RESULT 2  
US-10-657-852-25  
; Sequence 25, Application US/10657852  
; GENERAL INFORMATION:  
; APPLICANT: Demmer, Jeroen  
; APPLICANT: Shenk, Michael Andrew  
; APPLICANT: Hall, Claire  
; APPLICANT: Fish, Steven A  
; TITLE OF INVENTION: Antifreeze proteins isolated from forage  
; TITLE OF INVENTION: Grasses and methods for their use.  
; FILE REFERENCE: 11000.10700  
; CURRENT APPLICATION NUMBER: US/10/657,852  
; CURRENT FILING DATE: 2003-09-09  
; PRIOR APPLICATION NUMBER: 60/409,557  
; PRIOR FILING DATE: 2002-09-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 25  
LENGTH: 256  
TYPE: DPT  
ORGANISM: Festuca arundinacea  
US 10 456 947-25

Query Match 42.28; Score 41; DB 6; Length 256

Best Local Similarity 42.94; Pred. No. 18; DB 6; Length 256  
Matches 5; Conservative 5; Mismatches 5; Indels 4; Gaps 1

CV 4 KNNIKL ---NMPLYAGNK 20  
DB 115 KNLQVQLKGTNNPLHVMNR 135

RESULT 3  
US 10-425-114A 55861  
SEQUENCE 55861, Application US/10425114A

GENERAL INFORMATION:  
APPLICANT: Zhu, Qingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovacic, David K.  
APPLICANT: Screen, Steven S  
APPLICANT: Tabaska, Jack E  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Plant Varieties Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(5331)B  
CURRENT APPLICATION NUMBER: US/10/425-114A  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 55861:  
LENGTH: 401  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURES:  
OTHER INFORMATION: Clone ID: UC GR0P1Q04H02 File P-4

US-10 425 114A-55861

Query Match 41.28; Score 42; DB 6; Length 401

Best Local Similarity 70.08; Pred. No. 18; DB 6; Length 401  
Matches 2; Conservative 2; Mismatches 1; Indels 0; Gaps 0

CV 10 INVELYAGNK 19  
DB 545 LNMPSVAGN 544

RESULT 4  
US 10-456-947 46  
SEQUENCE 456, Application US/10456947

GENERAL INFORMATION:  
APPLICANT: Kevin J. Tracey  
APPLICANT: Brian Yang  
TITLE OF INVENTION: INHIBITORS OF THE INTERACTION BETWEEN  
TITLE OF INVENTION: HMGB POLYPEPTIDES AND TOLL LIKE RECEPTOR 2 AS  
TITLE OF INVENTION: ANT-INFLAMMATORY AGENTS  
FILE REFERENCE: 3268 1001-007  
CURRENT APPLICATION NUMBER: US/10/456,947  
CURRENT FILING DATE: 2003-06-26  
PRIOR APPLICATION NUMBER: 10/147,447  
PRIOR FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: 60/291,034  
PRIOR FILING DATE: 2001-05-15  
NUMBER OF SEQ ID NOS: 46  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 46  
LENGTH: 784  
TYPE: PRT  
ORGANISM: Homo Sapiens  
US-10 456 947-46

Query Match 40.74; Score 41; DB 6; Length 784

Best Local Similarity 44.08; Pred. No. 18; DB 6; Length 784  
Matches 11; Conservative 5; Mismatches 4; Indels 5; Gaps 2

CV 1 IFSKKNKI KKNMP---LYIAGNK 20  
DB 464 VSNNDLNFSLNIFQKELYISPK 464

RESULT 5  
US-60-487-410-2291  
SEQUENCE 2291, Application US/60487410

GENERAL INFORMATION:  
APPLICANT: CARGILL, Michele  
APPLICANT: HUANG, Hongbin  
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,  
TITLE OF INVENTION: METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CUG01469  
CURRENT APPLICATION NUMBER: US/60/487,410  
CURRENT FILING DATE: 2003-07-17  
NUMBER OF SEQ ID NOS: 97101  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2291:  
LENGTH: 784  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-60-487-410-2291

Query Match 40.74; Score 41; DB 7; Length 744

Best Local Similarity 44.08; Pred. No. 18; DB 7; Length 744  
Matches 11; Conservative 5; Mismatches 4; Indels 5; Gaps 2

CV 1 IFSKKNKI KKNMP LYIAGNK 20  
DB 464 VSNNDLNFSLNIFQKELYISPK 464

RESULT 6

US-09-801 944P 197

SEQUENCE 197, Application US/09801944P  
GENERAL INFORMATION:  
APPLICANT: Vogel, Gabriel  
APPLICANT: Wood, Linda S.  
TITLE OF INVENTION: Novel 3 Proteins Coupled Receptors  
FILE REFERENCE: 2003-03-08  
CURRENT APPLICATION NUMBER: US/09801944P  
CURRENT FILING DATE: 2003-03-08  
PRIOR APPLICATION NUMBER: 60/187,828  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,715  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,929  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,910  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,825  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,833  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,810  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,829  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,582  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,591  
PRIOR FILING DATE: 2000-03-08  
NUMBER OF SEQ ID NOS: 271  
SOFTWARE: Patent In: V415-000 3

US-09-801 944P 197

SEQUENCE 197, Application US/09801944P  
GENERAL INFORMATION:  
APPLICANT: Vogel, Gabriel  
APPLICANT: Wood, Linda S.  
TITLE OF INVENTION: Novel 3 Proteins Coupled Receptors  
FILE REFERENCE: 2003-03-08  
CURRENT APPLICATION NUMBER: US/09801944P  
CURRENT FILING DATE: 2003-03-08  
PRIOR APPLICATION NUMBER: 60/187,828  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,715  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,929  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,910  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,825  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,833  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,810  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,829  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,582  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/187,591  
PRIOR FILING DATE: 2000-03-08  
NUMBER OF SEQ ID NOS: 271  
SOFTWARE: Patent In: V415-000 3  
SEQ ID NO 197  
LENGTH: 197  
TYPE: PRT

Retaining Prior Application data removed - See File Wrapper or PALM.

1 ORGANISM: Homo sapiens  
US-09-202-464-10

Query Match 40.2% Score 41; DB 5; Length 175;  
Best Local Similarity 40.0%; Pred. No. 154;  
Matches 6; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 2 PSKLNKLNKMPYIA 16  
| | | | | | | | | | | | | | | | | | | | | |  
DB 140 PTSASSALNIPYIA 154

RESULT 7  
US-09-425-114A-71492  
Sequence 71492, Application US/10425-114A  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovacic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21453313B  
CURRENT APPLICATION NUMBER: US/10425-114A  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 71492  
LENGTH: 347  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: JP 2003-04-28  
US-09-425-114A-71492

Query Match 40.2% Score 41; DB 5; Length 347;  
Best Local Similarity 40.0%; Pred. No. 154;  
Matches 6; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 3 SKLNKLNKMPYIA 17  
| | | | | | | | | | | | | | | | | | | | | |  
DB 214 SKGLOVQCVPLVIA 265

RESULT 8  
US-10-425-114A-50978  
Sequence 50978, Application US/10425-114A  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovacic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21453313B  
CURRENT APPLICATION NUMBER: US/10425-114A  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 50978  
LENGTH: 350  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: 73035-1504 Filing  
US-10-425-114A-50978

Query Match 40.2% Score 41; DB 5; Length 347;  
Best Local Similarity 40.0%; Pred. No. 154;  
Matches 6; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 3 SKLNKLNKMPYIA 17  
| | | | | | | | | | | | | | | | | | | | | |  
DB 257 SKGLOVQCVPLVIA 271

RESULT 9  
US-09-674-546A-2615  
Sequence 2615, Application US/09674-546A  
GENERAL INFORMATION:  
APPLICANT: Institute for Genomic Research  
APPLICANT: Chiron Corporation  
TITLE OF INVENTION: Neisseria Meningitidis Antigens and Compositions  
FILE REFERENCE: CHIR-0314  
CURRENT APPLICATION NUMBER: US/09-674-546A  
CURRENT FILING DATE: 1999-04-30  
NUMBER OF SEQ ID NOS: 3264  
SOFTWARE: Patent in version 3.2  
SEQ ID NO 2615  
LENGTH: 467  
TYPE: PRT  
ORGANISM: Neisseria meningitidis  
US-09-674-546A-2615

Query Match 40.2% Score 41; DB 5; Length 467;  
Best Local Similarity 42.9%; Pred. No. 154;  
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 5 NNTKLNKMPYIA 18  
| | | | | | | | | | | | | | | | | | | | | |  
DB 336 SVGVQNLNLYTOS 349

RESULT 10  
US-09-674-546A-2617  
Sequence 2617, Application US/09674-546A  
GENERAL INFORMATION:  
APPLICANT: Institute for Genomic Research  
APPLICANT: Chiron Corporation  
TITLE OF INVENTION: Neisseria Meningitidis Antigens and Compositions  
FILE REFERENCE: CHIR-0314  
CURRENT APPLICATION NUMBER: US/09-674-546A  
CURRENT FILING DATE: 1999-04-30  
NUMBER OF SEQ ID NOS: 3264  
SOFTWARE: Patent in version 3.2  
SEQ ID NO 2617  
LENGTH: 467  
TYPE: PRT  
ORGANISM: Neisseria meningitidis  
US-09-674-546A-2617

Query Match 40.2% Score 41; DB 5; Length 467;  
Best Local Similarity 42.9%; Pred. No. 154;  
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 5 NNTKLNKMPYIA 18  
| | | | | | | | | | | | | | | | | | | | | |  
DB 336 SVGVQNLNLYTOS 349

RESULT 11  
US-09-674-546A-2691  
Sequence 2691, Application US/09674-546A  
GENERAL INFORMATION:  
APPLICANT: Institute for Genomic Research  
APPLICANT: Chiron Corporation  
TITLE OF INVENTION: Neisseria Meningitidis Antigens and Compositions  
FILE REFERENCE: CHIR-0314  
CURRENT APPLICATION NUMBER: US/09-674-546A  
CURRENT FILING DATE: 1999-04-30  
NUMBER OF SEQ ID NOS: 3264  
SOFTWARE: Patent in version 3.2  
SEQ ID NO 2691  
LENGTH: 467

QY TYPE: PRT  
US 09 674 546A-2991

Query Match 40.2% Score 41 DB 67 Length 609  
Best Local Similarity 38.9% Pred No 1.4e+02  
Matches 7 Conservative 67 Mismatches 4 Indels 0 Gaps 0

QY 1 IFKNNLNKNNMPYIAG 1P  
DB 156 IFKNNKHNKNSKSHVAG 173

RESULT 12

US 09 674 546A-2991  
Sequence 2991, Application US/29674546A  
GENERAL INFORMATION:  
APPLICANT: Institute for Genomic Research  
APPLICANT: Chiron Corporation  
TITLE OF INVENTION: Neisseria Meningitidis Antigenic and Compositions  
FILE REFERENCE: CHIR-0134  
CURRENT APPLICATION NUMBER: US/09/674,546A  
PRIORITY FILING DATE: 1999-04-30  
NUMBER OF SEQ ID NOS: 1264  
SOFTWARE: Blast2seq version 1.2  
SEQ ID NO 2991  
LENGTH: 619  
TYPE: PRT  
ORGANISM: Neisseria meningitidis  
US 09 674 546A-2991

Query Match 40.2% Score 41 DB 67 Length 609  
Best Local Similarity 38.9% Pred No 1.4e+02  
Matches 7 Conservative 67 Mismatches 4 Indels 0 Gaps 0

QY 1 IFKNNLNKNNMPYIAG 1P  
DB 156 IFKNNKHNKNSKSHVAG 173

RESULT 13

US 10 472 928-2984  
Sequence 2984, Application US/10472928  
GENERAL INFORMATION:  
APPLICANT: GRIPON SPA  
APPLICANT: THE INSTITUTE FOR GENOMICS RESEARCH  
TITLE OF INVENTION: STREPTOCOCCUS PNEUMONIAE R4 F10 AND MUTANT ACIDS  
FILE REFERENCE: PG26926W0  
CURRENT APPLICATION NUMBER: US/10/472,928  
PRIORITY FILING DATE: 2003-09-26  
PRIOR APPLICATION NUMBER: GR-0107655-7  
PRIORITY FILING DATE: 2001-03-27  
NUMBER OF SEQ ID NOS: 4979  
SOFTWARE: SeqMan99, version 1.03  
SEQ ID NO 2984  
LENGTH: 215  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
OTHER INFORMATION: hemolysin  
OTHER INFORMATION: Cellular location: membrane  
OTHER INFORMATION: Similar to strain R4 sequence (GenBank # U01350)  
US 10 472 928-2984

Query Match 39.2% Score 40 DB 67 Length 215  
Best Local Similarity 43.8% Pred No 1.2e+01  
Matches 7 Conservative 5 Mismatches 4 Indels 0 Gaps 0

QY 1 IFKNNLNKNNMPYI 16  
DB 156 IFKNNKHNKNSKSHVAG 173

RESULT 14

US 10 657 852-19  
Sequence 19, Application US/10657852  
GENERAL INFORMATION:  
APPLICANT: Demmet, Jeron  
APPLICANT: Sheek, Michael Andrew  
APPLICANT: Hall, Claito  
APPLICANT: Fish, Steven A  
TITLE OF INVENTION: Antifreeze proteins isolated from forage  
TITLE OF INVENTION: Grasses and methods for their use.  
FILE REFERENCE: 1100110701  
CURRENT APPLICATION NUMBER: US/10/657,852  
PRIORITY FILING DATE: 2003-09-09  
PRIOR APPLICATION NUMBER: GR/409,557  
PRIORITY FILING DATE: 2002-09-09  
NUMBER OF SEQ ID NOS: 44  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 19  
LENGTH: 277  
TYPE: PRT  
ORGANISM: Festuca arundinacea  
US 10 657 852-19

Query Match 39.2% Score 40 DB 67 Length 277  
Best Local Similarity 60.3% Pred No 1.4e+02  
Matches 6 Conservative 4 Mismatches 1 Indels 0 Gaps 0

QY 11 NMPLYIANK 20  
DB 146 NMPHVKGR 155

RESULT 15

US 10 657 852-20  
Sequence 20, Application US/10657852  
GENERAL INFORMATION:  
APPLICANT: Demmet, Jeron  
APPLICANT: Sheek, Michael Andrew  
APPLICANT: Hall, Claito  
APPLICANT: Fish, Steven A  
TITLE OF INVENTION: Antifreeze proteins isolated from forage  
TITLE OF INVENTION: Grasses and methods for their use.  
FILE REFERENCE: 1100110701  
CURRENT APPLICATION NUMBER: US/10/657,852  
PRIORITY FILING DATE: 2003-09-09  
PRIOR APPLICATION NUMBER: GR/409,557  
PRIORITY FILING DATE: 2002-09-09  
NUMBER OF SEQ ID NOS: 44  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 20  
LENGTH: 277  
TYPE: PRT  
ORGANISM: Festuca arundinacea  
US 10 657 852-20

Query Match 39.2% Score 40 DB 67 Length 277  
Best Local Similarity 60.3% Pred No 1.4e+02  
Matches 6 Conservative 3 Mismatches 1 Indels 0 Gaps 0

QY 11 NMPLYIANK 20  
DB 146 NMPHVKGR 155

Search completed: October 23, 2003, 10:55:01  
Job time : 8.5 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 Seconds  
(without alignments.  
74,230 Million cell updates/sec

Title: US-09-202-464-10

Perfect score: 102

Sequence: 1 IFSKNLNIKLNKPLYIAGNK 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310558 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/2/iaa/5A-COMB.pep:\*

2: /cgn2\_6/ptodata/2/iaa/5B-COMB.pep:\*

3: /cgn2\_6/ptodata/2/iaa/6A-COMB.pep:\*

4: /cgn2\_6/ptodata/2/iaa/6B-COMB.pep:\*

5: /cgn2\_6/ptodata/2/iaa/PTUS-COMB.pep:\*

6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	84	82.4	370	3	US-08-467-023-95
2	84	82.4	370	3	US-08-467-023-97
3	77	75.5	20	3	US-08-467-023-33
4	77	75.5	60	3	US-08-467-023-62
5	77	75.5	374	3	US-08-467-023-2
6	45	44.1	328	4	US-09-134-COIC-5155
7	44	43.1	139	4	US-08-936-165A-333
8	44	43.1	1132	4	US-09-198-452A-466
9	41.5	40.7	784	4	US-09-982-308B-23
10	41	40.2	24	3	US-09-177-249-197
11	41	40.2	200	3	US-08-581-148C-7
12	41	40.2	452	3	US-08-591-468-22
13	41	40.2	452	5	PCT-US94-06430-22
14	40.5	39.7	165	4	US-09-134-COIC-5104
15	40.5	39.7	616	4	US-09-198-452A-842
16	40	39.2	183	4	US-08-858-207A-401
17	40	39.2	1523	4	US-09-182-024A-2
18	39	38.2	20	3	US-08-467-023-32
19	39	38.2	73	4	US-09-328-352-5124
20	39	38.2	179	4	US-09-107-532A-7290
21	39	38.2	240	4	US-09-355-166-19
22	39	38.2	364	4	US-09-417-485D-46
23	39	38.2	367	4	US-09-134-COIC-4168
24	39	38.2	375	4	US-09-198-452A-421
25	39	38.2	391	1	US-08-290-448A-59
26	39	38.2	391	1	US-08-290-448A-59
27	39	38.2	391	1	US-08-175-069A-59

28	39	38.2	391	4	US-08-461-939B-59	Sequence 59, Appl
29	39	38.2	391	4	US-08-464-000-59	Sequence 59, Appl
30	39	38.2	398	1	US-08-290-448A-74	Sequence 74, Appl
31	39	38.2	398	1	US-08-290-448A-74	Sequence 74, Appl
32	39	38.2	398	1	US-08-175-069A-74	Sequence 74, Appl
33	39	38.2	398	4	US-08-461-939B-74	Sequence 74, Appl
34	39	38.2	398	4	US-08-464-000-74	Sequence 74, Appl
35	39	38.2	434	4	US-03-252-991A-32739	Sequence 32739, A
36	39	38.2	844	3	US-08-851-843A-55	Sequence 55, Appl
37	39	38.2	844	3	US-08-974-549A-222	Sequence 222, Appl
38	39	38.2	844	3	US-08-854-550-55	Sequence 55, Appl
39	39	38.2	844	4	US-03-430-323-55	Sequence 55, Appl
40	39	38.2	1004	4	US-09-236-942-55	Sequence 55, Appl
41	39	38.2	1012	4	US-09-236-942-55	Sequence 55, Appl
42	38	37.3	20	3	US-08-457-023-34	Sequence 34, Appl
43	38	37.3	30	3	US-08-457-023-67	Sequence 67, Appl
44	38	37.3	30	3	US-08-457-023-67	Sequence 67, Appl
45	38	37.3	80	4	US-09-252-991A-23729	Sequence 23729, A

## ALIGNMENTS

RESULT 1

US-08-467-023-95

; Sequence 95, Application US/58467023

; Patent No. 6390386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Julian F.

; APPLICANT: Garman, Richard D.

; APPLICANT: Kuo, Mei-Chang.

; APPLICANT: Yeung, Siu-mei H.

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Capanese Cedar Pollen

; NUMBER OF SEQUENCES: 251

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 524

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Penillard

; REGISTRATION NUMBER: 38,872

; REFERENCE/DOCKET NUMBER: 025.6 USC2 (WI-028CPD2)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617) 227-5941

; INFORMATION FOR SEQ ID NO: 95:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 367 amino acids

; TYPE: aming acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-467-023-95



Query Match 82.4%; Score 84; DB 3; Length 167;  
 Best Local Similarity 75.0%; Pred. No. 1.8e-06;  
 Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 1 : IFSKLNLIKLNPLYIAGNK 20  
 |||||:|||||:|||||:  
 Db 92 IFSQNNIKLNPLYVAGHK 111

## RESULT 2

US-08-467-023-97  
 ; Sequence 97, Application US/08467023  
 ; Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26;  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 Filing Date: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI-028CP2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 97:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 370 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-467-023-97

Query Match 82.4%; Score 84; DB 3; Length 170;  
 Best Local Similarity 75.0%; Pred. No. 1.8e-06;  
 Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 1 : IFSKLNLIKLNPLYIAGNK 20  
 |||||:|||||:|||||:  
 Db 92 IFSQNNIKLNPLYVAGHK 111

## RESULT 3

US-08-467-023-33  
 ; Sequence 33, Application US/08467023

Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26;  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 Filing Date: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI-028CP2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 33:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 20 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: polypeptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-33

Query Match 75.0%; Score 77; DB 3; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 9.6e-07;  
 Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

OY 1 : IFSKLNLIKLNPLYIAGNK 20  
 |||||:|||||:|||||:  
 Db 1 IFSQNNIKLNPLYVAGHK 20

RESULT 4  
 US-08-467-023-62  
 ; Sequence 62, Application US/08467023  
 ; Patent No. 6090386

GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From

```

; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS DOS
; SOFTWARE: Patent in Release #1.0. Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1 028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-62

Query Match 75.5%; Score 77; DB 3; Length 60;
Best Local Similarity 75.0%; Pred. No. 3,4e-06;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IFSKNKLNKLNMPYIAGK 20
Db 11 IFSGNMNIKMKPMYIAGYK 30

RESULT 5
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Giffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; JAPANESE CEDAR
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

```

; OPERATING SYSTEM: PC-DOS/MS DOS
; SOFTWARE: Patent in Release #1.0. Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1 028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-2

Query Match 75.5%; Score 77; DB 3; Length 374;
Best Local Similarity 75.0%; Pred. No. 2,4e-05;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IFSKNKLNKLNMPYIAGK 20
Db 92 IFSGNMNIKMKPMYIAGYK 111

RESULT 6
US-09-134-001-5155
; Sequence 5155, Application US/09134001
; Patent No. 6348379
; GENERAL INFORMATION:
; APPLICANT: Type Concrete Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: ITC 027
; CURRENT APPLICATION NUMBER: US/09134001
; CURRENT FILING DATE: 1999-08-13
; PRIOR APPLICATION NUMBER: US 609744,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 607045,773
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5474
; SEQ ID NO 6155
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
; US-09-134-001-5155

Query Match 44.1%; Score 45; DB 4; Length 318;
Best Local Similarity 50.0%; Pred. No. 7.5e-03;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 FSKLNKLNKLNMPYIAGN 10
Db 215 FIKORLNKLNKPMYIAGG 312

RESULT 7
US-08-936-165A 313
; Sequence 313, Application US/08936165A
; Patent No. 6348582
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; APPLICANT: Burnham, Martin
; APPLICANT: Hodgson, John
; APPLICANT: Knowles, David

```

APPLICANT: Lonetto, Michael  
 APPLICANT: Nicholas, Richard  
 APPLICANT: Pratt, Julie  
 APPLICANT: Reichard, Richard  
 APPLICANT: Rosenberg, Martin  
 APPLICANT: Ward, Judith  
 TITLE OF INVENTION: No. 634552A: Prokaryotic Polynucleotides.  
 TITLE OF INVENTION: Polypeptides and Their Uses  
 NUMBER OF SEQUENCES: 534  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Smithkline Beecham Corporation  
 STREET: 709 Swedeland Road  
 CITY: King of Prussia  
 STATE: PA  
 COUNTRY: USA  
 ZIP: 19406-0939  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/936.165A  
 FILING DATE: 24-SEP-1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/027,032  
 FILING DATE: 24-SEP-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Givmi, Edward R  
 REGISTRATION NUMBER: 38,891  
 REFERENCE/DOCKET NUMBER: P50549  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 610-270-4478  
 TELEFAX: 610-270-5090  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 333:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 129 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: Protein  
 US-08-936-165A-333

Query Match 43.1% Score 44; DB 4; Length 129;  
 Best Local Similarity 50.0%; Pred. No. 16;  
 Matches 8; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 IFSKNLNKLNKXPLVI 16  
 Db 84 VFSKALNLYLXPP:HV 99  
 ||||| ||| |||||

RESULT 9  
 US-09-198-452A-466  
 Sequence 466 Application US/09198452A  
 Patent No. 6559294  
 GENERAL INFORMATION:  
 APPLICANT: Griffiths, R.  
 TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection  
 TITLE OF INVENTION: and treatment of infection  
 FILE REFERENCE: 9710-003-999  
 CURRENT APPLICATION NUMBER: US/09/198-452A  
 CURRENT FILING DATE: 1998-11-24  
 NUMBER OF SEQ ID NOS: 6849  
 SEQ ID NO 466  
 LENGTH: 1132  
 TYPE: PRT  
 ORGANISM: Chlamydia pneumoniae

Query Match 43.1% Score 44; DB 4; Length 1132;  
 Best Local Similarity 47.4%; Pred. No. 45;  
 Matches 9; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1 IFSKNLNKLNKXPLVI 16  
 Db 421 IYSKNLSITANIPSESTNS 411  
 ||||| ||| |||||

RESULT 9  
 US-09-982-308B-23  
 Sequence 23 Application US/090982308B  
 Patent No. 6531282  
 GENERAL INFORMATION:  
 APPLICANT: Dai, Paila  
 APPLICANT: Fan, Xuedong  
 APPLICANT: Gundell, Daniel  
 APPLICANT: Luhn, Charles A.  
 APPLICANT: Tan, Jimmy  
 APPLICANT: Zavadsky, Paul  
 TITLE OF INVENTION: Mammalian TSP alpha convertases  
 FILE REFERENCE: CBK6107  
 CURRENT APPLICATION NUMBER: 09/0982,148P  
 CURRENT FILING DATE: 2001-03-13  
 PRIOR APPLICATION NUMBER: 09/156,163  
 PRIOR FILING DATE: 1998-03-17  
 PRIOR APPLICATION NUMBER: 08/449,969  
 PRIOR FILING DATE: 1997-07-10  
 PRIOR APPLICATION NUMBER: 60/071,719  
 PRIOR FILING DATE: 1996-03-12  
 NUMBER OF SEQ ID NOS: 23  
 SOFTWARE: Patent Invention 3.0  
 SEQ ID NO 23  
 LENGTH: 764  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-982-308B-23

Query Match 40.7% Score 41.5; DB 4; Length 764;  
 Best Local Similarity 44.0%; Pred. No. 99;  
 Matches 11; Conservative 5; Mismatches 4; Indels 5; Gaps 0;

QY 1 IFSKNLNKLNKXPLVI 20  
 Db 464 VSKNNLIFSSNIPOLRELYSPNR 488  
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RESULT 10  
 US-09-177-249-197  
 Sequence 197 Application US/09177249  
 Patent No. 6229064  
 GENERAL INFORMATION:  
 APPLICANT: Fischer, Robert B.  
 APPLICANT: Chad, Nir  
 APPLICANT: Kiyosue, Tomohiro  
 APPLICANT: Yadevari, Ramon  
 APPLICANT: Margossian, Linda  
 APPLICANT: Harada, John  
 APPLICANT: Goldberg, Robert B.  
 APPLICANT: The Regents of the University of California  
 TITLE OF INVENTION: Nucleic Acids That Control Seed and Fruit  
 TITLE OF INVENTION: Development in Plants  
 FILE REFERENCE: 021770-CAL28US  
 CURRENT APPLICATION NUMBER: 09/09177,249  
 CURRENT FILING DATE: 1998-10-22  
 EARLIER APPLICATION NUMBER: US 09/091,836  
 EARLIER FILING DATE: 1998-05-01  
 NUMBER OF SEQ ID NOS: 124  
 SOFTWARE: Patent Invention Ver. 2.0  
 SEQ ID NO 197  
 LENGTH: 24  
 TYPE: PRT  
 ORGANISM: Arabidopsis sp.

US-09 177:249-197

Query Match 40.28; Score 41; DB 3; Length 24;  
 Best Local Similarity 80.0%; Pred. No. 1.7;  
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IFSKNLNKL 10  
 |||||  
 Db 1 IFSKNLNKL 10

RESULT 11

US-08-581-1480-7  
 Sequence 7, Application US/085811480  
 Patent No. 6060844

GENERAL INFORMATION:

APPLICANT: Schnable, Patrick S.  
 APPLICANT: Robertson, Donald S.  
 APPLICANT: Hansen, Joel D.  
 APPLICANT: Nikolau, Basil C.  
 APPLICANT: Xu, Xidong

APPLICANT: Xia, Yili

TITLE OF INVENTION: ISOLATION AND USE OF CUTICLAP 11P-0

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jeydig, Volt & Mayer, Ltd.  
 STREET: Two Prudential Plaza, Suite 4900  
 CITY: Chicago  
 STATE: IL  
 COUNTRY: US

ZIP: 60601-6780

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent'n Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/5811480

FILING DATE: 29-DEC-1995

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Larchey, Carol

REGISTRATION NUMBER: 35243

REFERENCE/DOCKET NUMBER: 71380

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 616-5600

TELEFAX: (312) 616-5700

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 200 amino acids

TYPE: amino acid

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-581-1480-7

Query Match

Best Local Similarity 40.28; Score 41; DB 3; Length 24;  
 Matches 6; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 3 SKNLNKLNYLTA 17

|||

Db 136 SKGIDVQCQVLYVA 150

RESULT 12

US-08-591-468-22

Sequence 22, Application US/08591468  
 Patent No. 6160291

GENERAL INFORMATION:

APPLICANT: The Upjohn, Company et al

TITLE OF INVENTION: Jettuce Infectious Yellow Virus Genes

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Corporate Intellectual Property Law  
 STREET: 301 Beaubien Street  
 CITY: Kalamazoo  
 STATE: Michigan  
 COUNTRY: USA  
 ZIP: 49001

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent'n Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/591468

FILING DATE:

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Darinley, James E.

REGISTRATION NUMBER: 33673

TELECOMMUNICATION INFORMATION:

TELEPHONE: 616-385-5210

TELEFAX: 616-385-6437

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 400 amino acids

TYPE: amino acid

STANTENESS: simple

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-591-468-22

Query Match

Best Local Similarity 40.28; Score 41; DB 3; Length 400;  
 Matches 4; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 IFSKNLNKLNYLTA 17

|||

Db 147 USKRNUNNMPYVA 142

RESULT 13

PCT/US94-06430-22

Sequence 22, Application PCT/US94-06430

GENERAL INFORMATION:

APPLICANT: The Upjohn Company

TITLE OF INVENTION: Jettuce Infectious Yellow Virus Genes

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSEE: The Upjohn Company, Corp. Intellectual

ADDRESSEE: Property Law

STREET: 301 Beaubien Street

CITY: Kalamazoo

STATE: Michigan

COUNTRY: USA

ZIP: 49001

COMPUTER READABLE FORM: disk

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent'n Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/06430

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Darinley, James E.

REGISTRATION NUMBER: 33673

TELECOMMUNICATION INFORMATION:

TELEPHONE: 616-385-5210

TELEFAX: 616-385-6437

INFORMATION FOR SEQ ID NO: 22:

THE UNIVERSITY OF CHICAGO PRESS

Qy 1 :FSKNLN:KLN MPL 14

GenCore version 5.1.6  
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OM protein - protein search, using sw mode:

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 Seconds  
(without alignments)  
169,580 Million cell updates/sec

Title: US-09-202-464-12

Perfect score: 112

Sequence: 1 TIDGRGAEVHIGNGCPCLFM 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167465630 residues

Total number of hits satisfying chosen parameters: 429002

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.  
3: /cgn2\_6/ptodata/1/pubpaa/US36\_NEW\_PUB.pep.  
4: /cgn2\_6/ptodata/1/pubpaa/US36\_PUBCOMB.pep.  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.  
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7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.  
8: /cgn2\_6/ptodata/1/pubpaa/US38\_PUBCOMB.pep.  
9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	112	100.0	375	11	US-09-847-208-58
2	107	95.5	367	11	US-09-847-208-109
3	103	92.0	346	11	US-09-847-208-67
4	92	82.1	374	12	US-09-847-208-68
5	70	62.5	15	12	US-10-354-240-34
6	68	60.7	15	12	US-10-354-240-33
7	55	49.1	397	11	US-09-847-208-15
8	54	48.2	392	11	US-09-847-208-16
9	53	47.3	396	11	US-09-847-208-17
10	52	46.4	15	12	US-10-354-240-35
11	51	45.5	398	11	US-09-847-208-14
12	50	44.6	397	11	US-09-847-208-17
13	46	41.1	878	12	US-10-029-396-13716
14	46	41.1	1519	12	US-10-311-626-6
15	45	40.2	58	10	US-09-796-692-2459

36	40.2	58	15	US-10-040-860-2459	Sequence 2459, Ap
43	39.3	56	12	US-09-847-208-231	Sequence 231, App
44	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
18	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
19	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
20	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
21	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
22	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
23	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
24	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
25	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
26	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
27	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
28	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
29	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
30	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
31	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
32	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
33	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
34	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
35	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
36	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
37	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
38	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
39	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
40	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
41	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
42	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
43	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
44	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap
45	39.3	448	12	US-10-017-161-2372	Sequence 2372, Ap

#### ALIGNMENTS

RESULT 1  
US-09-847-208-58  
; Publication No. US09847208  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Caocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; FILE REFERENCE: US07/002A  
; CURRENT FILING DATE: 2001/05/01  
; NUMBER OF SEQ ID NOS: 101  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO: 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Chlamydomonas reinhardtii (Chlamydomonas reinhardtii)  
US-09-847-208-58

Query Match 100.0% Score 112 DB ID 11  
Best local similarity 100.0% Pred. No. 1.1e-08  
Matches 20 Conservative 0 Mismatches 0 Indels 0 Gaps 0

QY 1 TIDGRGAEVHIGNGCPCLFM 20  
Db 112 TIDGRGAEVHIGNGCPCLFM 112

RESULT 2  
US-09-847-208-109  
; Publication No. US09847208  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Caocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 FILE REFERENCE: UC67.002A

CURRENT APPLICATION NUMBER: US/09/847.20A

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 109

LENGTH: 367

TYPE: PRT

ORGANISM: Juniperus ashei (Ozark white cedar)

US-09-847-20A-109

Query Match 95.5% Score 107, DB 11, Length 367

Best Local Similarity 95.0% Pred. No. 5, 9a 9a7

Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0

QY 1 TIDGRGAHVHNGGPGCLFM 20

DB 112 TIDGRGADVHLNGGPGCLFM 131

RESULT 3

US-09-847-20A-67

Sequence 67, Application US/0984720A

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67.002A

CURRENT APPLICATION NUMBER: US/09/847.20A

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 67

LENGTH: 346

TYPE: PRT

ORGANISM: Cupressus arizonica

US-09-847 20A 67

Query Match 92.0% Score 103, DB 11, Length 346

Best Local Similarity 95.0% Pred. No. 2, 2a 007

Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0

QY 1 TIDGRGAHVHNGGPGCLFM 20

DB 91 TIDGRGADVHLNGGPGCLFM 110

RESULT 4

US-09-847-20A-68

Sequence 68, Application US/0984720A

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67.002A

CURRENT APPLICATION NUMBER: US/09/847.20A

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 68

LENGTH: 374

TYPE: PRT

ORGANISM: Cryptomeria japonica (Japanese cedar)

US-09-847-20A 68

Query Match 81.3% Score 30, DB 11, Length 367

Best Local Similarity 80.0% Pred. No. 1, 1a 1a7

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0

QY 1 TIDGRGAHVHNGGPGCLFM 20

DB 112 TIDGRGADVHLNGGPGCLFM 131

RESULT 5

US-10-154-240-14

Sequence 14, Application US/10154.40

Publication No. US2004004494A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Kono, Akimasa

APPLICANT: Dairiki, Kazuo

APPLICANT: Iwama, Akio

APPLICANT: Kido, Fumiko

TITLE OF INVENTION: Immune Based Immunotherapeutic Agent for Treating Allergic Dis

FILE REFERENCE: SP1-1001

CURRENT APPLICATION NUMBER: US/10/154.40

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: US/09/847.20A

PRIOR FILING DATE: 2001-05-01

PRIOR APPLICATION NUMBER: US/09/847.20A

PRIOR FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patent In Version 3.1

SEQ ID NO 14

LENGTH: 15

TYPE: PRT

ORGANISM: Cryptomeria japonica

FEATURE:

NAME: KEY: MISC: FEATURE:

LOCATION: 101-105

OTHER INFORMATION: Cyt11 p4919, Figure 1, Row 120

US-10-154-240-14

Query Match 62.5% Score 20, DB 12, Length 15

Best Local Similarity 20.0% Pred. No. 0, 0a 0a7

Matches 11; Conservative 4; Mismatches 6; Indels 0; Gaps 0

QY 4 TIDGRGAHVHNGGPGCLFM 20

DB 1 TIDGRGADVHLNGGPGCLFM 14

RESULT 6

US-10-154-240-17

Sequence 18, Application US/10154.40

Publication No. US2004004494A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Kono, Akimasa

APPLICANT: Dairiki, Kazuo

APPLICANT: Iwama, Akio

APPLICANT: Kido, Fumiko

TITLE OF INVENTION: Immune Based Immunotherapeutic Agent for Treating Allergic Dis

FILE REFERENCE: SP1-1001

CURRENT APPLICATION NUMBER: US/10/154.40

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: US/09/847.20A

PRIOR FILING DATE: 2001-05-01

PRIOR APPLICATION NUMBER: US/09/847.20A

PRIOR FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patent In Version 3.1

SEQ ID NO 17

LENGTH: 15

TYPE: PRT

ORGANISM: Cryptomeria japonica

FEATURE:

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; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 19
US-10-354-240-33

Query Match      60.7% Score 68; DB 12; Length 15;
Best Local Similarity 80.0%; Pred. No. 0.2013;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGG 15
Db 1 TIDGRGAQVYIGNGG 15

RESULT 7
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-15

Query Match      49.1% Score 55; DB 11; Length 197;
Best Local Similarity 73.3%; Pred. No. 3.4;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGG 15
Db 139 TIDGRGAKVEILINGG 153

RESULT 8
US-09-847-208-16
; Sequence 16, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-16

Query Match      48.2% Score 54; DB 11; Length 392;
Best Local Similarity 57.9%; Pred. No. 4.7;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGGPCLF 19
Db 139 TIDGRGAKVEILINGGFAIY 157

RESULT 9
US-09-847-208-13
; Sequence 13, Application US/09447208
; Publication No. US20030042190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match      47.0% Score 53; DB 11; Length 396;
Best Local Similarity 71.8%; Pred. No. 6.2;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGG 15
Db 139 TIDGRGAKVEILINGG 153

RESULT 10
US-10-354-240-35
; Sequence 15, Application US/10354240
; Publication No. US20030185647A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kure, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: King, Koshiko
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis
; FILE REFERENCE: SPO-10354
; CURRENT APPLICATION NUMBER: US/10/354.240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/08740
; PRIOR FILING DATE: 1997-04-10
; PRIOR APPLICATION NUMBER: US 09/142,504
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent IS version 3.1
; SEQ ID NO 35
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE: NAME/KEY: MISC FEATURE
; LOCATION: 1-15
; OTHER INFORMATION: Cry1 peptide, Figure 1, Row 21
US-10-354-240-35

Query Match      46.4% Score 52; DB 12; Length 15;
Best Local Similarity 80.0%; Pred. No. 0.31;
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIDGRGQCLFV 20
Db 1 TIDGRGQCLFV 10

RESULT 11
US-09-847-208-14
; Sequence 14, Application US/09847208
```



```

; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-14

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Query Match 45.58; Score 50; DB 11; Length 398;
Best Local Similarity 66.78; Pred. No. 13;
Matches 10; Conservative 2; Mismatches 3; Indels 3; Gaps 0;

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QY 1 TIDGRGAEVH:GNCG 15
||| ||| ||| |||
Db 140 TIDGRGVKVN:VNAV 154

```

```

RESULT 12
US-09-847-208-17
; Sequence 17, Application US/99847228
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-17

```

```

Query Match 44.68; Score 50; DB 11; Length 397;
Best Local Similarity 66.78; Pred. No. 19;
Matches 10; Conservative 2; Mismatches 3; Indels 3; Gaps 0;

```

```

QY 1 TIDGRGAEVH:GNCG 15
||| ||| ||| |||
Db 139 TIDGRGAKVELVYGG 153

```

```

RESULT 13
US-10-029-386-33716
; Sequence 33716, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROCES USEFUL FOR
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEWICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029.386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33716

```

```

; LENGTH: 808
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAY 20 APPROX 1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.14
; OTHER INFORMATION: SWISSPROT HIT: P13664, EVALUATE 8.00E 01
US-10-029-386-33716

```

```

Query Match 41.13; Score 45; DB 12; Length 808;
Best Local Similarity 60.43; Pred. No. 136+02;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 4 ORGAEVH:GNCG 17
||| ||| ||| |||
Db 211 GRNDELTERP:R 153

```

```

RESULT 14
US-10-311-626-6
; Sequence 6, Application US/00000000
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: INOVTE GENETICS, INC.
; APPLICANT: LAU, Pamel
; APPLICANT: TANG, Y. Tim
; APPLICANT: YUE, Henry
; APPLICANT: CHANG, Nandor F.
; APPLICANT: BADGER, Martin P.
; APPLICANT: DAS Dhotriya
; APPLICANT: RAVKIMAR Javalakki
; APPLICANT: TRIBBLEY, Catherine M.
; APPLICANT: LU, Dyrus Anna M.
; APPLICANT: PAPALIA, April
; APPLICANT: GANHI, Anceeta F.
; APPLICANT: LEE, Ernestine A.
; APPLICANT: XU, Yaming
; APPLICANT: BARDYAN, Olga
; APPLICANT: ELIOT, Vicki S.
; APPLICANT: NGUYEN, Gannick H.
; APPLICANT: BIEFILL John D.
; APPLICANT: MARCUS, Gregory A.
; APPLICANT: ZINGLER, Kurt A.
; APPLICANT: LI, Yac
; APPLICANT: YAC, Yelkane B.
; APPLICANT: SURDEAN, Petrucci
; APPLICANT: DING, Li
; APPLICANT: WARREN, Bridget A.
; APPLICANT: THANGAVELO, Kavitha
; APPLICANT: LEE, Sally
; TITLE OF INVENTION: SECRETION AND TRAFFICKING MOLECULES
; FILE REFERENCE: PP-0841-EST US/00/011426
; CURRENT APPLICATION NUMBER: US/00/011426
; CURRENT FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: 60/215,455; 60/219,384; 60/251,639
; PRIOR FILING DATE: 2000-06-29; 2000-10-10; 2000-11-28
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PERL ProGra-
; SEQ ID NO 6
; LENGTH: 1519
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/REV: misc feature
; OTHER INFORMATION: IGVs ID NO. US20030194704A1 7472258001
US-10-311-626-6

```

```

Query Match 41.13; Score 45; DB 12; Length 1519;
Best Local Similarity 50.03; Pred. No. 2 96+02;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 4 ORGAEVH:GNCG 17
||| ||| ||| |||

```

Db 383 GPCSDLHTGSGPC 396

RESULT 15

US-09-796-692-2459  
 ; Sequence 2459, Application US/09796692  
 ; Publication No. US20020198362A;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gauger, Alexander  
 ; APPLICANT: A-gate, Paul A.  
 ; APPLICANT: Mannion, Jane  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND TREATMENT OF  
 ; TITLE OF INVENTION: HEMATOLOGICAL MALIGANCIES  
 ; FILE REFERENCE: 2377-03-200  
 ; CURRENT APPLICATION NUMBER: US/09/796,692  
 ; CURRENT FILING DATE: 2001-03-01  
 ; PRIOR APPLICATION NUMBER: 60/186,126  
 ; PRIOR FILING DATE: 2000-03-01  
 ; PRIOR APPLICATION NUMBER: 60/190,479  
 ; PRIOR FILING DATE: 2000-03-27  
 ; PRIOR APPLICATION NUMBER: 60/200,545  
 ; PRIOR FILING DATE: 2000-04-27  
 ; PRIOR APPLICATION NUMBER: 60/200,303  
 ; PRIOR FILING DATE: 2000-04-28  
 ; PRIOR APPLICATION NUMBER: 60/200,709  
 ; PRIOR FILING DATE: 2000-04-28  
 ; PRIOR APPLICATION NUMBER: 60/200,999  
 ; PRIOR FILING DATE: 2000-05-01  
 ; PRIOR APPLICATION NUMBER: 60/202,054  
 ; PRIOR FILING DATE: 2000-05-04  
 ; PRIOR APPLICATION NUMBER: 60/206,201  
 ; PRIOR FILING DATE: 2000-05-22  
 ; PRIOR APPLICATION NUMBER: 60/218,950  
 ; PRIOR FILING DATE: 2000-07-14  
 ; PRIOR APPLICATION NUMBER: 60/222,903  
 ; PRIOR FILING DATE: 2000-08-03  
 ; PRIOR APPLICATION NUMBER: 60/223,416  
 ; PRIOR FILING DATE: 2000-08-04  
 ; PRIOR APPLICATION NUMBER: 60/223,378  
 ; PRIOR FILING DATE: 2000-08-07  
 ; NUMBER OF SEQ ID NOS: 9597  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 2459  
 ; LENGTH: 58  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-796-692-2459

Query Match 40.28; Score 45; DB 10; Length 59;  
 Best Local Similarity 63.61; Pred. No. 14;  
 Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 9 VHGNGGPGCLF 19  
 :||| :|||  
 Db 27 IHLGNIPCLF 37

Search completed: October 23, 2003, 11:01:45  
 Job time : 20.75 secs



Query Match 95.5%; Score 107; DR 3; Length 167;  
Best Local Similarity 90.0%; Pred. No. 3.6e-08;  
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGPCFLFM 20  
|||||:|||||:|||||  
DB 112 TIDGRGADVHLNGGPCFLFM 131

## RESULT 2

US-08-467-023-97  
Sequence 97, Application US/08467023

Patent No. 6290386

GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Young, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/38/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,972  
REFERENCE/DOCKET NUMBER: 025.6 US2 (INT-023CT72)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-5941  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 97:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 370 amino acids  
TYPE: amine acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-97

Query Match 95.5%; Score 107; DR 3; Length 167;  
Best Local Similarity 90.0%; Pred. No. 3.6e-08;  
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGPCFLFM 20  
|||||:|||||:|||||  
DB 112 TIDGRGADVHLNGGPCFLFM 131

## RESULT 3

US-08-467-023-35  
Sequence 15, Application US/08467023

Patent No. 6092386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Young, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/38/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,972  
REFERENCE/DOCKET NUMBER: 025.6 US2 (INT-023CT72)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-5941  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amine acid  
TOPOLOGY: linear  
MOLECULE TYPE: Peptide  
FRAGMENT TYPE: Internal  
US-08-467-023-35

Query Match 82.0%; Score 92; DR 3; Length 20;  
Best Local Similarity 75.0%; Pred. No. 2.9e-07;  
Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGPCFLFM 20  
|||||:|||||:|||||  
DB 1 TIDGRGADVHLNGGPCFLFM 20

## RESULT 4

US-08-467-023-71  
Sequence 15, Application US/08467023  
Patent No. 6092386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Young, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From

```

: TITLE OF INVENTION: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.3, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 39,872
: REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT-028CFD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 71:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 30 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-71

Query Match: 82.1%; Score 92; DB 3; Length 10;
Best Local Similarity 75.0%; Pred. No. 4.4e-07;
Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 1 TIDGRGAEVHVGNGGPGCFM 20
DB 11 TFDGRGAQVYVINGGPGCVFI 30

RESULT 5
US-08-467-023-62
: Sequence 62, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bord, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Wei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.3, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 39,872

```

```

: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.3, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 39,872
: REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT-028CFD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 42:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 60 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-62

Query Match: 82.1%; Score 92; DB 3; Length 60;
Best Local Similarity 75.0%; Pred. No. 9e-07;
Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 1 TIDGRGAEVHVGNGGPGCFM 20
DB 11 TFDGRGAQVYVINGGPGCVFI 30

RESULT 6
US-08-467-023-63
: Sequence 63, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bord, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Wei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.3, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 39,872

```

REFERENCE/DOCKET NUMBER: 025.6 US2 (IM: 028CPD2)

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 374 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-467-023-2

Query Match 82.1% Score 92.0 DB 3 Length 374

Best Local Similarity 75.0% Pred. No. 5,8e-06

Matches 15: Conservative 4: Mismatches 1: Indels 7: Gaps 0:

QY : TIDGRGAEVHIGNGPGCLPM 20

DB 112 TFDGRGAQVYVIGNGPGCVFI 131

# RESULT 7

US-08-467-023-67

Sequence 67, Application US/06467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.

APPLICANT: Pollock, Joanne

APPLICANT: Bond, Julian F.

APPLICANT: Garman, Richard D.

APPLICANT: Kuo, Wei-Chang

APPLICANT: Yeung, Siu-mei H.

APPLICANT: Brauer, Andrew

APPLICANT: Exley, Mark A.

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.05

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,223

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 US2 (IM: 028CPD2)

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 67:

SEQUENCE CHARACTERISTICS:

LENGTH: 30 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023 67

Query Match 75.0% Score 84.0 DB 3 Length 30

Best Local Similarity 60.0% Pred. No. 5,8e-06

Matches 14: Conservative 4: Mismatches 2: Indels 0: Gaps 0:

QY : TIDGRGAEVHIGNGPGCLPM 20

DB 112 TFDGRGAQVYVIGNGPGCVFI 131

# RESULT 8

US-08-467-023-73

Sequence 73, Application US/06467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.

APPLICANT: Pollock, Joanne

APPLICANT: Bond, Julian F.

APPLICANT: Garman, Richard D.

APPLICANT: Kuo, Wei-Chang

APPLICANT: Yeung, Siu-mei H.

APPLICANT: Brauer, Andrew

APPLICANT: Exley, Mark A.

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.05

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,223

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 US2 (IM: 028CPD2)

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 73:

SEQUENCE CHARACTERISTICS:

LENGTH: 22 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-73

# Query Match

75.0% Score 73.0 DB 3 Length 22

Best Local Similarity 61.0% Pred. No. 0.0011

Matches 14: Conservative 2: Mismatches 1: Indels 0: Gaps 0:

QY : TIDGRGAEVHIGNGPG 16

DB : TFDGRGAQVYVIGNGPG 22

# RESULT 9

US-08-467-023-72

Sequence 72, Application US/06467023

```

? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.;
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 US22 (MI-028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 72:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 24 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-72

Query Match 67.0%; Score 75; DB 3; Length 24;
Best Local Similarity 81.8%; Pred. No. 0.0001;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY : TIDRGAEVHIGNGP 16
Db 9 TFDGCAQVYVIGNGP 24

RESULT 10
US-08-467-023-74
? Sequence 74, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.;
? TITLE OF INVENTION: Allergenic Proteins And Peptides From

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? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 US22 (MI-028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 74:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 24 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-74

Query Match 67.0%; Score 75; DB 3; Length 24;
Best Local Similarity 81.8%; Pred. No. 0.0001;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY : TIDRGAEVHIGNGP 16
Db 9 TFDGCAQVYVIGNGP 24

RESULT 11
US-08-290-448A-76
? Sequence 76, Application US/08290448A
? Patent No. 5676934
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Palmer, Thomas
? APPLICANT: Kuo, Mei-Chang
? TITLE OF INVENTION: Allergenic Proteins From Ragweed And Trees
? NUMBER OF SEQUENCES: 91
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & ROCKFIELD
? STREET: 60 State Street, Suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:

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; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-290-448A-76

Query Match 49.1%; Score 55; DB 1; Length 397;
Best Local Similarity 73.3%; Pred. No. 1.7;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHGNCG 15
Db 139 TIDGRGVKVELING 153

RESULT 12
US-08-290-448A-76
; Sequence 76, Application US/08290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Pagweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.2, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-290-448A-76

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Query Match 49.1%; Score 55; DB 1; Length 397;
Best Local Similarity 73.3%; Pred. No. 1.7;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHGNCG 15
Db 139 TIDGRGVKVELING 153

RESULT 13
US-08-175-069A-76
; Sequence 76, Application US/08175069A
; Patent No. 576761
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.2, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 07/175,069A
; FILING DATE: December 29, 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/129,151
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/129,151
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-175-069A-76

Query Match 49.1%; Score 55; DB 1; Length 397;
Best Local Similarity 73.3%; Pred. No. 1.7;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHGNCG 15
Db 139 TIDGRGVKVELING 153

RESULT 14
US-08-461-339B-76
; Sequence 76, Application US/08461339B
; Patent No. 635019
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn

```



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: APPLICANT: Kuo, Mei-chang
: TITLE OF INVENTION: Methods For Treating Sensitivity To A
: TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: LAHIVE & COCKFIELD, LLP
: STREET: 28 State Street
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109-1875
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/461,939B
: FILING DATE:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/464,000
: FILING DATE: 05-JUN-1995
: APPLICATION NUMBER: US 08/290,448
: FILING DATE: 15-AUG-1994
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: 29-MAY-1990
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: 17-MAR-1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IMI-0-8CNDV
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)742-4214
: INFORMATION FOR SEQ ID NO: 76:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 397 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-461-939B-76

Query Match 49.1%; Score 55; DB 4; Length 397;
Best Local Similarity 73.3%; Pct-Id No: 1.7;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGG 15
DB 139 TIDGRGVKVEIINGG 153

RESULT 15
US-08-464-000-76
: Sequence 76, Application US/08464000
: Patent No. 6335020
: GENERAL INFORMATION:
: APPLICANT: Rogers, Bruce
: APPLICANT: Klapper, David G.
: APPLICANT: Rafnar, Thorunn
: APPLICANT: Kuo, Mei-chang
: TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: LAHIVE & COCKFIELD, LLP
: STREET: 60 State Street
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109-1875
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible

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: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/461,939B
: FILING DATE: 05-JUN-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/464,000
: FILING DATE: 15-AUG-1994
: APPLICATION NUMBER: US 08/290,448
: FILING DATE: 29-MAY-1990
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: 17-MAR-1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IMI-0-8CNDV
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)742-4214
: INFORMATION FOR SEQ ID NO: 76:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 397 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-464-000-76

Query Match 49.1%; Score 55; DB 4; Length 397;
Best Local Similarity 73.3%; Pct-Id No: 1.7;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TIDGRGAEVHIGNGG 15
DB 139 TIDGRGVKVEIINGG 153

Search completed: October 23, 2003, 09:45:23
Job time : 12.4 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CorpuGen Ltd.

OM protein - protein search, using sw mode:

Run on: October 23, 2003, 09:50:14 : Search time 19.35 Seconds  
(without alignment)  
169,582 Million cell updates/sec

Title: US-09-202-464-13

Perfect score: 111

Sequence: 1 IONGGPGCLFMTVSHVILHG 20

Scoring table: BLOSUM62

Gapex 10.0 , Gapext 0.5

Searched: 523382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629182

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first: 45 summaries

Database :

Published Applications AA:  
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2: /cgn2\_6/ptodata/1/pubaa/PCT\_NEW\_PUB.pep.  
3: /cgn2\_6/ptodata/1/pubaa/US05\_NEW\_SHA.pep.  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	111	100.0	375	11 US-09-847-208-58	Sequence 58, App.
2	99	89.2	346	11 US-09-847-208-67	Sequence 67, App.
3	97	87.4	367	11 US-09-847-208-109	Sequence 109, App.
4	96	77.5	374	11 US-09-847-208-68	Sequence 68, App.
5	62	55.9	15	12 US-10-354-240-35	Sequence 35, App.
6	58	52.3	15	12 US-10-354-240-36	Sequence 36, App.
7	58	52.3	15	12 US-10-354-240-159	Sequence 159, App.
8	58	52.3	15	12 US-10-354-240-163	Sequence 163, App.
9	52	46.8	14	12 US-10-354-240-169	Sequence 169, App.
10	52	46.8	15	12 US-10-354-240-34	Sequence 34, App.
11	51	45.9	14	12 US-10-354-240-164	Sequence 164, App.
12	45	40.5	876	12 US-10-312-187-2	Sequence 2, App.
13	45	40.5	876	12 US-10-312-187-31	Sequence 31, App.
14	44	39.6	13	12 US-10-354-240-170	Sequence 170, App.
15	44	39.6	830	15 US-10-211-962-37	Sequence 37, App.

Sequence 181, App.  
Sequence 19, App.  
Sequence 5, App.  
Sequence 112, App.  
Sequence 171, App.  
Sequence 177, App.  
Sequence 20, App.  
Sequence 20, App.  
Sequence 171, App.  
Sequence 13, App.  
Sequence 165, App.  
Sequence 174, App.  
Sequence 1, App.  
Sequence 2, App.  
Sequence 3, App.  
Sequence 29, App.  
Sequence 166, App.  
Sequence 9, App.  
Sequence 6, App.  
Sequence 54, App.  
Sequence 24, App.  
Sequence 17, App.  
Sequence 8, App.  
Sequence 6, App.  
Sequence 1, App.  
Sequence 24, App.  
Sequence 23, App.  
Sequence 23, App.  
Sequence 42, App.

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86 36.2 435 44 35 13-712-361-151  
87 36.2 435 45 35 13-712-361-151

#### ALL INVENTS

RESULT 1  
US-09-847-208-58  
Publication No. US200302190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Daobong  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGH-V-RELATED ALLERGIC DISEASES  
FILE REFERENCE: US67-002A  
CURRENT APPLICATION NUMBER: US/09/847-208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 58  
TYPE: PRT  
LENGTH: 375  
ORGANISM: Characyparis obusa (Japanese Cypress)  
US-09-847-208-58

Query Match 100.0% Score 111 DB ID 375 Length 375  
Best Local Similarity 100.0% Pred. No. 3.1e+09  
Matches 27 Conservative 0 Mismatches 0 Indels 0 Gaps 0

QV 1 IONGGPGCLFMTVSHVILHG 20

DB 122 IONGGPGCLFMTVSHVILHG 141

#### RESULT 2

US-09-847-208-67  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Daobong

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; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

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Query Match      89.2%  Score 997  DB 11  Length 146
Best Local Similarity 89.0%  Pred. No. 2 5e-09
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0

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QY 1 LGGGPGCLEMRTVSHVILHG 20
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Db 101 LGGGPGCLEMRRKASHVILHG 120
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RESULT 3
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxor, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

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Query Match      87.4%  Score 977  DB 11  Length 167
Best Local Similarity 89.5%  Pred. No. 5 4e-07
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0

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QY 1 LGGGPGCLEMRTVSHVILH 19
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Db 122 LGGGPGCLEMRRKASHVILH 140
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RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxor, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

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Query Match      88.8%  Score 961  DB 11  Length 166
Best Local Similarity 88.7%  Pred. No. 2 7e-06
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QY 1 LGGGPGCLEMRTVSHVILHG 17
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Db 122 LGGGPGCLEMRRKASHVILHG 141
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RESULT 5
US-10-354-240-35
; Sequence 35, Application US/10354240
; Publication No. US2003014647A1
; GENERAL INFORMATION:
; APPLICANT: Sore, Toshio
; APPLICANT: Kume, Akio
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwata, Akiko
; APPLICANT: Kuro, Kousuke
; TITLE OF INVENTION: Peptide-Based Immunopotentiator Agent for Treating Allergic Dis-
; FILE REFERENCE: SPC 1032
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-20
; PRIOR APPLICATION NUMBER: PCT/JP99/00047
; PRIOR FILING DATE: 1997-04-12
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 35
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MIST FEATURE
; LOCATION: 111-1151
; OTHER INFORMATION: Cyst. peptide, Figure 1, Row 21
US-10-354-240-35

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Query Match      86.9%  Score 671  DB 12  Length 157
Best Local Similarity 86.0%  Pred. No. 6 0.0054
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0

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QY 1 LGGGPGCLEMRTVSHVILH 16
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Db 1 LGGGPGCLEMRRKASHVILH 15
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RESULT 6
US-10-354-240-36
; Sequence 36, Application US/10354240
; Publication No. US2003014647A1
; GENERAL INFORMATION:
; APPLICANT: Sore, Toshio
; APPLICANT: Kume, Akio
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwata, Akiko
; APPLICANT: Kuro, Kousuke
; TITLE OF INVENTION: Peptide-Based Immunopotentiator Agent for Treating Allergic Dis-
; FILE REFERENCE: SPC 1032
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-20
; PRIOR APPLICATION NUMBER: PCT/JP99/00040
; PRIOR FILING DATE: 1997-04-12
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:

```

```
; NAME/KEY: MISC FEATURE
; LOCATION: (1):(15)
; OTHER INFORMATION: Crys: peptide, Figure 1, Row 22
US-10-354-240-16
Query Match 52.18; Score 58; DB 12; Length 15;
Best Local Similarity 60.08; Pred. No. 0.022;
Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 6 PCLEFMTVSHVILHG 20
| | | | |
Db 1 PCVFIKRVSNVILHG 15

RESULT 7
US-10-354-240-159
; Sequence 159, Application US/10154240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1):(15)
; OTHER INFORMATION: Figure 7, Row b
US-10-354-240-159
Query Match 52.38; Score 58; DB 12; Length 15;
Best Local Similarity 60.08; Pred. No. 0.022;
Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 6 PCLEFMTVSHVILHG 20
| | | | |
Db 1 PCVFIKRVSNVILHG 15

RESULT 8
US-10-354-240-163
; Sequence 163, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
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; SEQ ID NO 163
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, Row c
US-10-354-240-163
Query Match 52.19; Score 58; DB 12; Length 15;
Best Local Similarity 60.08; Pred. No. 0.022;
Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 6 PCLEFMTVSHVILHG 20
| | | | |
Db 1 PCVFIKRVSNVILHG 15

RESULT 9
US-10-354-240-169
; Sequence 169, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, Row c
US-10-354-240-169
Query Match 46.48; Score 52; DB 12; Length 14;
Best Local Similarity 57.18; Pred. No. 0.117;
Matches 8; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Qy 6 PCLEFMTVSHVILHG 19
| | | | |
Db 1 PCVFIKRVSNVILHG 14

RESULT 10
US-10-354-240-174
; Sequence 174, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
```

? PRIOR FILING DATE: 1998-09-09  
 ? NUMBER OF SEQ ID NOS: 174  
 ? SOFTWARE: PatentIn version 3.1  
 ? SEQ ID NO 34  
 ? LENGTH: 15  
 ? TYPE: PRT  
 ? ORGANISM: Cryptomeria japonica  
 ? FEATURE:  
 ? NAME/KEY: MISC FEATURE  
 ? LOCATION: (1..15)  
 ? OTHER INFORMATION: Crys: peptide, Figure 3, Row 129  
 US-10-354-240-34

Query Match 46.9%; Score 57; PR 12; Length 14;  
 Best Local Similarity 80.0%; Pred. NO. 0.19;  
 Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 IGNCGPCLEF 10  
 DB 6 IGNCGPCVFI 15

RESULT 11  
 US-10-354-240-164  
 ? Sequence 164, Application US/10154240  
 ? Publication No. US20030185847A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Sone, Toshio  
 ? APPLICANT: Kume, Akinori  
 ? APPLICANT: Dairiki, Kazuo  
 ? APPLICANT: Iwama, Akiko  
 ? APPLICANT: Kino, Kousuke  
 ? TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disor  
 ? FILE REFERENCE: SPO-10301  
 ? CURRENT APPLICATION NUMBER: US/10/354,240  
 ? CURRENT FILING DATE: 2003-01-29  
 ? PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ? PRIOR FILING DATE: 1997-03-10  
 ? PRIOR APPLICATION NUMBER: US 09/142,524  
 ? PRIOR FILING DATE: 1998-09-09  
 ? NUMBER OF SEQ ID NOS: 174  
 ? SOFTWARE: PatentIn version 3.1  
 ? SEQ ID NO 164  
 ? LENGTH: 14  
 ? TYPE: PRT  
 ? ORGANISM: Cryptomeria japonica  
 ? FEATURE:  
 ? NAME/KEY: MISC FEATURE  
 ? OTHER INFORMATION: Figure 15, p22-2.  
 US-10-354-240-164

Query Match 45.9%; Score 51; DB 12; Length 14;  
 Best Local Similarity 57.1%; Pred. NO. 0.26;  
 Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 7 CLEFRTVSHVILHG 20  
 DB 1 CVFLKRVSNVILHG 14

RESULT 12  
 US-10-312-187-2  
 ? Sequence 2, Application US/10312187  
 ? Publication No. US20030162291A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: HEKIMI, Siegfried  
 ? APPLICANT: BENARD, Claire  
 ? APPLICANT: MCCRIGHT, Brent  
 ? APPLICANT: LAKOWSKI, Bernard  
 ? APPLICANT: HAN, Dong  
 ? APPLICANT: LABBE, Jean-Claude  
 ? TITLE OF INVENTION: CLK-2, CEX-7 AND COQ-4 GENES, AND USES THEREOF  
 ? FILE REFERENCE: 11202-008-999

? CURRENT APPLICATION NUMBER: US20030162291A1  
 ? CURRENT FILING DATE: 2003-12-12  
 ? PRIOR APPLICATION NUMBER: US 40/264,932  
 ? PRIOR FILING DATE: 2000-12-13  
 ? PRIOR APPLICATION NUMBER: US 40/213,174  
 ? PRIOR FILING DATE: 2000-06-22  
 ? NUMBER OF SEQ ID NOS: 52  
 ? SOFTWARE: FastSeq (C) Windows Version 4.0  
 ? SEQ ID NO 2  
 ? LENGTH: 876  
 ? TYPE: PRT  
 ? ORGANISM: C. elegans  
 ? FEATURE:  
 ? OTHER INFORMATION: Cys: 110-111  
 US-10-312-187-2

Query Match 41.4%; Score 45; PR 12; Length 876;  
 Best Local Similarity 47.4%; Pred. NO. 1.44-0.02;  
 Matches 5; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 2 GNSPTVSHVILHG 20  
 DB 195 GNSPTVSHVILHG 211

RESULT 13  
 US-10-312-187-1  
 ? Sequence 31, Application US20030162291A1  
 ? Publication No. US20030162291A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: HEKIMI, Siegfried  
 ? APPLICANT: BENARD, Claire  
 ? APPLICANT: MCCRIGHT, Brent  
 ? APPLICANT: LAKOWSKI, Bernard  
 ? APPLICANT: HAN, Dong  
 ? APPLICANT: LABBE, Jean-Claude  
 ? TITLE OF INVENTION: CLK-2, CEX-7 AND COQ-4 GENES, AND USES THEREOF  
 ? FILE REFERENCE: 11202-008-999  
 ? CURRENT APPLICATION NUMBER: US/10/312,187  
 ? CURRENT FILING DATE: 2002-12-12  
 ? PRIOR APPLICATION NUMBER: US 40/264,932  
 ? PRIOR FILING DATE: 2000-12-13  
 ? PRIOR APPLICATION NUMBER: US 40/213,174  
 ? PRIOR FILING DATE: 2000-06-22  
 ? NUMBER OF SEQ ID NOS: 52  
 ? SOFTWARE: FastSeq (C) Windows Version 4.0  
 ? SEQ ID NO 31  
 ? LENGTH: 876  
 ? TYPE: PRT  
 ? ORGANISM: unknown  
 ? FEATURE:  
 ? OTHER INFORMATION: Cys: 110-111  
 ? OTHER INFORMATION: Y substitution at position 772  
 US-10-312-187-1

Query Match 40.5%; Score 45; PR 12; Length 876;  
 Best Local Similarity 47.4%; Pred. NO. 1.44-0.02;  
 Matches 5; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 2 GNSPTVSHVILHG 20  
 DB 195 GNSPTVSHVILHG 211

RESULT 14  
 US-10-354-240-170  
 ? Sequence 170, Application US/10354240  
 ? Publication No. US2003016147A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Sone, Toshio  
 ? APPLICANT: Kume, Akinori  
 ? APPLICANT: Dairiki, Kazuo  
 ? APPLICANT: Iwama, Akiko

APPLICANT: King, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 170  
LENGTH: 13  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
OTHER INFORMATION: Figure 15, p22-8.  
US-10-354-240-170

Query Match 39.6%; Score 44; DB 12; Length 13;  
Best Local Similarity 53.8%; Pred. No. 2.8;  
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 6 PCLEMRVTVSHVIL 18  
|||:|:|:|:  
DB : PCVFIKRVSNVIL 13

RESULT 15  
US-10-211-962-37  
Sequence 37, Application US/10211962  
Publication No. US20030082640A1  
GENERAL INFORMATION:  
APPLICANT: Herz, Joachim  
APPLICANT: Gothardt, Michael  
TITLE OF INVENTION: LDL Receptor Signaling Pathways  
FILE REFERENCE: UTSW0708  
CURRENT APPLICATION NUMBER: US/10/211,962  
CURRENT FILING DATE: 2002-08-01  
PRIOR APPLICATION NUMBER: US/09/562,737  
PRIOR FILING DATE: 2000-05-01  
NUMBER OF SEQ ID NOS: 132  
SOFTWARE: PatentIn ver. 2.1  
SEQ ID NO 37  
LENGTH: 830  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
OTHER INFORMATION: Sequence  
US-10-211-962 37

Query Match 39.6%; Score 44; DB 15; Length 830;  
Best Local Similarity 50.0%; Pred. No. 1.9e-02;  
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 GNGGPCLEMRVTVSH 15  
|||:|:|:|:  
DB 704 GNGGLCAAMQKIAH 717

Search completed: October 23, 2003, 11:01:46  
Job time : 23.75 secs



Query Match 92.8%; Score 103; DB 3; Length 160;  
 Best Local Similarity 90.0%; Pred. No. 4, 1e-08;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LGNGGPCLEMRVSHVILHG 20  
 DB 122 LGNGGPCLEMRKVSHVILHG 141

## RESULT 2

US-08-467-023-95  
 ; Sequence 95, Application US/08467023

Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26;  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release H1.0, Version #1.05  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jare E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI 0240702)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941

## INFORMATION FOR SEQ ID NO: 95:

## SEQUENCE CHARACTERISTICS:

LENGTH: 367 amino acids

TYPE: amino acid

TOPOLGY: linear

MOLECULE TYPE: protein

US-08-467-023-95

## Query Match

Best Local Similarity 87.4%; Score 97; DB 3; Length 160;  
 Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LGNGGPCLEMRVSHVILHG 19  
 DB 122 LGNGGPCLEMRKVSHVILHG 140

## RESULT 3

US-08-467-023 36  
 ; Sequence 36, Application US/08467023

Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26;  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release H1.0, Version #1.05  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jare E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI 0240702)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941

## INFORMATION FOR SEQ ID NO: 36:

## SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: Internal

US-08-467-023 36

## Query Match

Best Local Similarity 77.5%; Score 56; DB 3; Length 20;  
 Matches 14; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

OY 1 LGNGGPCLEMRVSHVILHG 20

DB 1 LGNGGPCLEMRKVSHVILHG 20

## RESULT 4

US-08-467-023 42  
 ; Sequence 42, Application US/08467023

Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From



```

1 TITLE OF INVENTION: Japanese Cedar Pollen
2 NUMBER OF SEQUENCES: 261
3 CORRESPONDENCE ADDRESS:
4 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
5 STREET: 610 Lincoln St
6 CITY: Waltham
7 STATE: MA
8 COUNTRY: USA
9 ZIP: 02154
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: Floppy disk
12 OPERATING SYSTEM: IBM PC compatible
13 SOFTWARE: Patent Release #1.0, Version #1.25
14 CURRENT APPLICATION DATA:
15 APPLICATION NUMBER: US/08/467,023
16 FILING DATE: June 6, 1995
17 CLASSIFICATION: 424
18 PRIOR APPLICATION DATA:
19 APPLICATION NUMBER: 08/350,225
20 FILING DATE: December 6, 1994
21 ATTORNEY/AGENT INFORMATION:
22 NAME: Jane E. Remillard
23 REGISTRATION NUMBER: 38,872
24 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1-028CFD2)
25 TELECOMMUNICATION INFORMATION:
26 TELEPHONE: (617) 227-7400
27 TELEFAX: (617) 227-5941
28 INFORMATION FOR SEQ ID NO: 62:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 60 amino acids
31 TYPE: amino acid
32 TOPOLOGY: linear
33 MOLECULE TYPE: peptide
34 FRAGMENT TYPE: internal
35 US-08-467-023-62
36
37 Query Match 77.5% Score 867 DB 37 Length 60
38 Best Local Similarity 70.0% Pred. No. 2.4e-06
39 Matches 14, Conservative 5, Mismatches 1, Indels 0, Gaps 0
40
41 Qy 1 :GNGGPCLFMRVTSHVILHG 20
42 Db 41 :GNGGPCVCFIKRVSNIIRG 60
43
44 RESULT 5
45 US-08-467-023-2
46 Sequence 2, Application US/08467023
47 Patent No. 6090386
48 GENERAL INFORMATION:
49 APPLICANT: Griffith, Irwin J.;
50 APPLICANT: Pollock, Joanne;
51 APPLICANT: Bond, Julian P.;
52 APPLICANT: Garman, Richard D.;
53 APPLICANT: Kuo, Mei-Chang;
54 APPLICANT: Yeung, Siu-mei H.;
55 APPLICANT: Brauer, Andrew;
56 APPLICANT: Exley, Mark A.;
57 APPLICANT: Powers, Steven P.
58 TITLE OF INVENTION: Allergenic Proteins And Peptides From
59 TITLE OF INVENTION: Japanese Cedar Pollen
60 NUMBER OF SEQUENCES: 261
61 CORRESPONDENCE ADDRESS:
62 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
63 STREET: 610 Lincoln St
64 CITY: Waltham
65 STATE: MA
66 COUNTRY: USA
67 ZIP: 02154
68 COMPUTER READABLE FORM:
69 MEDIUM TYPE: Floppy disk
70 OPERATING SYSTEM: IBM PC compatible
71 SOFTWARE: Patent Release #1.0, Version #1.25
72 CURRENT APPLICATION DATA:
73 APPLICATION NUMBER: 08/350,225
74 FILING DATE: June 6, 1995
75 CLASSIFICATION: 424
76 PRIOR APPLICATION DATA:
77 APPLICATION NUMBER: 08/350,225
78 FILING DATE: December 6, 1994
79 ATTORNEY/AGENT INFORMATION:
80 NAME: Jane E. Remillard
81 REGISTRATION NUMBER: 38,872
82 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1-028CFD2)
83 TELECOMMUNICATION INFORMATION:
84 TELEPHONE: (617) 227-7400
85 TELEFAX: (617) 227-5941
86 INFORMATION FOR SEQ ID NO: 62:
87 SEQUENCE CHARACTERISTICS:
88 LENGTH: 60 amino acids
89 TYPE: amino acid
90 TOPOLOGY: linear
91 MOLECULE TYPE: peptide
92 FRAGMENT TYPE: internal
93 US-08-467-023-62

```

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1 OPERATING SYSTEM: PC DOS/MS-DOS
2 SOFTWARE: Patent Release #1.0, Version #1.25
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: US/08/467,023
5 FILING DATE: June 6, 1995
6 CLASSIFICATION: 424
7 PRIOR APPLICATION DATA:
8 APPLICATION NUMBER: 08/350,225
9 FILING DATE: December 6, 1994
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Jane E. Remillard
12 REGISTRATION NUMBER: 38,872
13 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1-028CFD2)
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (617) 227-7400
16 TELEFAX: (617) 227-5941
17 INFORMATION FOR SEQ ID NO: 62:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 354 amino acids
20 TYPE: amino acid
21 TOPOLOGY: linear
22 MOLECULE TYPE: protein
23 US-08-467-023-2
24
25 Query Match 77.5% Score 867 DB 27 Length 374
26 Best Local Similarity 70.0% Pred. No. 1.5e-06
27 Matches 14, Conservative 5, Mismatches 1, Indels 0, Gaps 0
28
29 Qy 1 :GNGGTCFLMRVTSHVILHG 20
30 Db 122 :GNGGPCVCFIKRVSNIIRG 141
31
32 RESULT 6
33 US-08-467-023-25
34 Sequence 35, Application US/08467023
35 Patent No. 6090386
36 GENERAL INFORMATION:
37 APPLICANT: Griffith, Irwin J.;
38 APPLICANT: Pollock, Joanne;
39 APPLICANT: Bond, Julian P.;
40 APPLICANT: Garman, Richard D.;
41 APPLICANT: Kuo, Mei-Chang;
42 APPLICANT: Yeung, Siu-mei H.;
43 APPLICANT: Brauer, Andrew;
44 APPLICANT: Exley, Mark A.;
45 APPLICANT: Powers, Steven P.
46 TITLE OF INVENTION: Allergenic Proteins And Peptides From
47 TITLE OF INVENTION: Japanese Cedar Pollen
48 NUMBER OF SEQUENCES: 261
49 CORRESPONDENCE ADDRESS:
50 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
51 STREET: 610 Lincoln St
52 CITY: Waltham
53 STATE: MA
54 COUNTRY: USA
55 ZIP: 02154
56 COMPUTER READABLE FORM:
57 MEDIUM TYPE: Floppy disk
58 OPERATING SYSTEM: PC DOS/MS-DOS
59 SOFTWARE: Patent Release #1.0, Version #1.25
60 CURRENT APPLICATION DATA:
61 APPLICATION NUMBER: US/08/467,023
62 FILING DATE: June 6, 1995
63 CLASSIFICATION: 424
64 PRIOR APPLICATION DATA:
65 APPLICATION NUMBER: 08/350,225
66 FILING DATE: December 6, 1994
67 ATTORNEY/AGENT INFORMATION:
68 NAME: Jane E. Remillard
69 REGISTRATION NUMBER: 38,872
70 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1-028CFD2)

```

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-35

Query Match 46.8% Score 52 DB 3 Length 20  
Best Local Similarity 80.0% Pred. No. 0.12  
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0

QY 1 IGNGPCPLEM 10  
Db 11 IGNGPCVFI 20

RESULT 7

US-08-467-023 67  
Sequence 67, Application US/08467023  
Patent No. 609386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Cane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD (IM1-02ACT02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-67

Query Match 46.8% Score 52 DB 3 Length 20  
Best Local Similarity 80.0% Pred. No. 0.12  
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0

QY 1 IGNGPCPLEM 10  
Db 21 IGNGPCVFI 30

RESULT 8

US 08 467 023 71  
Sequence 71, Application US/08467024  
Patent No. 609386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Cane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD (IM1-02ACT02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 71:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-71

Query Match 46.8% Score 52 DB 3 Length 20  
Best Local Similarity 80.0% Pred. No. 0.12  
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0

QY 1 IGNGPCPLEM 10  
Db 21 IGNGPCVFI 30

RESULT 9

US 09 252 931A 29977  
Sequence 29977, Application US/09252991A

```

; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074.785
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094.190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29977
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29977

Query Match 39.6%; Score 44; DB 4; Length 302;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 9; Conservative 3; Mismatches 4; Indels 2; Gaps 1;

QY 4 GGPCLFMRITVSH--VLSH 19
Db 49 GSPCLILATLAHTRVDUH 66

RESULT 10
US-09-562-737-37
; Sequence 37, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
; APPLICANT: Heitz, Joachim
; APPLICANT: Gotthardt, Michael
; TITLE OF INVENTION: LDL Receptor Signaling Pathways
; FILE REFERENCE: UTSW0708
; CURRENT APPLICATION NUMBER: US/09/562.737
; CURRENT FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 132
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 37
; LENGTH: 830
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-562-737-37

Query Match 39.6%; Score 44; DB 4; Length 830;
Best Local Similarity 50.0%; Pred. No. 10+02;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 GNGGPCLFMRITVSH 15
Db 704 GNGGLCAAMOKIAH 717

RESULT 11
US-09-036-987A-9
; Sequence 9, Application US/09036987A
; Patent No. 6143526
; GENERAL INFORMATION:
; APPLICANT: Baltz, Richard H.
; APPLICANT: Broughton, Mary C.
; APPLICANT: Crawford, Kathryn P.
; APPLICANT: Madduri, Krishnamurthy
; APPLICANT: Meric, Donald J.
; APPLICANT: Treadway, Patti J.
; APPLICANT: Turner, Jan R.
; APPLICANT: Waldron, Clive
; TITLE OF INVENTION: Biosynthetic Genes For Spinosyn Insecticide

```

```

; TITLE OF INVENTION: Production
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dow AgroSciences LLC Patent Department
; STREET: 9330 Zionsville Road
; CITY: Indianapolis
; STATE: Indiana
; COUNTRY: USA
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PROSOME IFS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/036.987A
; FILING DATE: 09-MAR-1998
; CLASSIFICATION: 430
; ATTORNEY/AGENT INFORMATION:
; NAME: Stuart, Donald E.
; REGISTRATION NUMBER: 10111
; REFERENCE/DOCKET NUMBER: 001004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317)337-4816
; TELEFAX: (317)337-4847
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 250 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-036-987A-9

Query Match 38.7%; Score 43; DB 3; Length 250;
Best Local Similarity 53.8%; Pred. No. 40;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 GNGGPCLFMRITV 13
Db 84 VMRGAGCFMRFAV 96

RESULT 12
US-09-370-700-9
; Sequence 9, Application US/090370009
; Patent No. 6274350
; GENERAL INFORMATION:
; APPLICANT: Baltz, Richard H.
; APPLICANT: Broughton, Mary C.
; APPLICANT: Crawford, Kathryn P.
; APPLICANT: Madduri, Krishnamurthy
; APPLICANT: Treadway, Patti J.
; APPLICANT: Turner, Jan R.
; APPLICANT: Waldron, Clive
; TITLE OF INVENTION: Biosynthetic Genes For Spinosyn Insecticide
; FILE REFERENCE: 50489.1191
; CURRENT APPLICATION NUMBER: US/09/370.009
; CURRENT FILING DATE: 1999-08-03
; EARLIER APPLICATION NUMBER: US 09/36987
; EARLIER FILING DATE: 1998-03-09
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 9
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Saccharopolyspora spinosa
US-09-370-700-9

Query Match 38.7%; Score 43; DB 3; Length 250;
Best Local Similarity 53.8%; Pred. No. 40;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 GNGGPCLFMRITV 13

```

```

      TELEFAX: 617-861-6240
      INFORMATION FOR SEQ ID NO 1:
      SEQUENCE CHARACTERISTICS
      LENGTH: 512 AMINO ACIDS
      TYPE: AMINO ACID
      TOPOLOGY: linear
      MOLECULE TYPE: protein
      US-07-779-890-4

Query Match      34.8%   Score 431   DB 1   Length 512
Best Local Similarity 50.0%   Pred. No. 861
Matches      8; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY      4 GGGPLEMTVSHVSH 13
      | | | | |
Db      480 GKSLEMTTLCVSH 495

RESULT 15
US-07-779-890-4
Sequence 4, Application US/0779890
Patent No. 568934
GENERAL INFORMATION:
APPLICANT: Primakoff, Paul
APPLICANT: Myles, Diana G.
TITLE OF INVENTION: Contraceptive Vaccine
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.
CITY: Lexington
STATE: Massachusetts
COUNTRY: US
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.2, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0779890
FILING DATE: 21 OCT 1990
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/627,782
FILING DATE: 14-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: UCT90-01A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEFAX: 617-861-6240
INFORMATION FOR SEQ ID NO 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 512 AMINO ACIDS
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-779-890-4

Query Match      34.8%   Score 431   DB 1   Length 512
Best Local Similarity 50.0%   Pred. No. 861
Matches      8; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY      4 GGGPLEMTVSHVSH 13
      | | | | |
Db      480 GKSLEMTTLCVSH 495

Search completed: October 23, 2003, 09:55:24
Job time : 12.4 secs

```



; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 346  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 US-09-847-208-67

Query Match 86.1%; Score 91; DB 11; Length 346;  
 Best Local Similarity 85.0%; Pred. No. 2,40-06;  
 Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 RTVSHVILHGLNIGKNTSV 20  
 | ||||| ||||| ||||| |||||

DB 11 RKASHVILHGLNIGKNTSV 130

## RESULT 3

US-09-847-208-109  
 ; Sequence 109, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxton, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 367  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Ozark white cedar)

US-09-847-208-109

Query Match 84.3%; Score 91; DB 11; Length 367;  
 Best Local Similarity 85.0%; Pred. No. 5,1e-06;  
 Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 RTVSHVILHGLNIGKNTSV 20  
 | ||||| ||||| ||||| |||||

DB 112 RKVSHVILHGLNIGKNTSV 151

## RESULT 4

US-09-847-208-68  
 ; Sequence 68, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxton, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 374  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica (Japanese cedar)

US-09-847-208-68

Query Match 84.0%; Score 92; DB 11; Length 374;  
 Best Local Similarity 85.0%; Pred. No. 2,004E-07;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 RTVSHVILHGLNIGKNTSV 20  
 | ||||| ||||| ||||| |||||

DB 112 KVSNSVILHGLNIGKNTSV 141

## RESULT 5

US-10-354-240-38  
 ; Sequence 38, Application US/10354240  
 ; Publication No. US2003016445A1

; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kuro, Akio  
 ; APPLICANT: Ohtsuka, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kuro, Kazuo  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases

; FILE REFERENCE: SP013101  
 ; CURRENT APPLICATION NUMBER: US/10/154,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PRT/1999/0119  
 ; PRIOR FILING DATE: 1999-01-29  
 ; PRIOR APPLICATION NUMBER: US 09/147,624  
 ; PRIOR FILING DATE: 1999-01-29  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1

; SEQ ID NO 38  
 ; LENGTH: 15  
 ; TYPE: PRT

; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 1..15  
 ; OTHER INFORMATION: Cyt 1 Postada, Figure 1, Row 24  
 US-10-354-240-38

Query Match 87.4%; Score 62; DB 12; Length 15;  
 Best Local Similarity 86.0%; Pred. No. 3,004E-07;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 VTHGSHVIGKNTSV 20  
 | ||||| ||||| ||||| |||||

DB 1 VTHGSHVIGKNTSV 15

## RESULT 6

US-10-354-240-37  
 ; Sequence 37, Application US/10354240  
 ; Publication No. US2003016445A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kuro, Akio  
 ; APPLICANT: Ohtsuka, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kuro, Kazuo

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases  
 ; FILE REFERENCE: SP013101  
 ; CURRENT APPLICATION NUMBER: US/10/154,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PRT/1999/0119  
 ; PRIOR FILING DATE: 1999-01-29  
 ; PRIOR APPLICATION NUMBER: US 09/147,624  
 ; PRIOR FILING DATE: 1999-01-29  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1

; SEQ ID NO 37  
 ; LENGTH: 15  
 ; TYPE: PRT

; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 1..15  
 ; OTHER INFORMATION: Cyt 1 Postada, Figure 1, Row 24  
 US-10-354-240-37

Query Match 87.4%; Score 62; DB 12; Length 15;  
 Best Local Similarity 86.0%; Pred. No. 3,004E-07;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 VTHGSHVIGKNTSV 20  
 | ||||| ||||| ||||| |||||

DB 1 VTHGSHVIGKNTSV 15

NAME/KEY: MISC\_FEATURE  
 LOCATION: (1)-(15)  
 OTHER INFORMATION: CRYJ1 peptide, Figure 1, Row 23  
 US-10-354-240-37

Query Match 45.4%; Score 49; DB 12; Length 15;  
 Best Local Similarity 53.3%; Pred. No. 0.46;  
 Matches 8; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1 RTVSHVILHGLNIG 15  
 DB 1 KRVSNIHGLHLYG 15

## RESULT 7

US-10-698-4880  
 Sequence 4880, Application US/0106698  
 Publication No. US20030109690A1

## GENERAL INFORMATION:

APPLICANT: Ruben et al.  
 TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
 FILE REFERENCE: PAC0591  
 CURRENT APPLICATION NUMBER: US/10-106.698  
 CURRENT FILING DATE: 2002-03-27  
 PRIOR APPLICATION NUMBER: PCT/US00/26524  
 PRIOR FILING DATE: 2000-09-28  
 PRIOR APPLICATION NUMBER: US 60/157,137  
 PRIOR FILING DATE: 1999-09-29  
 PRIOR APPLICATION NUMBER: US 60/163,280  
 PRIOR FILING DATE: 1999-11-03  
 NUMBER OF SEQ ID NOS: 8564  
 SOFTWARE: PatentIn Ver. 3.0  
 SEQ ID NO 4880  
 LENGTH: 81  
 TYPE: PRT  
 ORGANISM: Homo sapiens

US-10-106-698-4880

Query Match 45.4%; Score 49; DB 15; Length 8;  
 Best Local Similarity 50.0%; Pred. No. 2.7;  
 Matches 9; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

QY 5 HVLHGL-N-HGCVTSV 20  
 DB 2 HLLHGLYRNEAGCWTNL 19

## RESULT 8

US-10-225-567A-426  
 Sequence 426, Application US/0225567A  
 Publication No. US20030113798A1

## GENERAL INFORMATION:

APPLICANT: LifeSpan Biosciences  
 APPLICANT: Brown, Joseph P.  
 APPLICANT: Burner, Glenn C.  
 APPLICANT: Roush, Christine L.  
 TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN COUPLED RECEPTORS  
 FILE REFERENCE: 1920-4-4  
 CURRENT APPLICATION NUMBER: US/10/225,567A  
 CURRENT FILING DATE: 2001-12-19  
 PRIOR APPLICATION NUMBER: 60/257,144  
 PRIOR FILING DATE: 2000-12-19  
 NUMBER OF SEQ ID NOS: 2292  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 426  
 LENGTH: 543  
 TYPE: PRT  
 ORGANISM: Homo sapiens

US-10-225-567A-426

Query Match 42.6%; Score 46; DB 15; Length 543;  
 Best Local Similarity 37.5%; Pred. No. 59;  
 Matches 9; Conservative 3; Mismatches 4; Indels 8; Gaps 1;

QY 5 HVLHGL-N-HGCVTSV 20  
 DB 208 HWVQSQAFCYCSINPNNVY 241

## RESULT 9

US-10-241-220-66  
 Sequence 66, Application US/1024120  
 Publication No. US20030149408A1  
 GENERAL INFORMATION:  
 APPLICANT: Prantiz, Gretchen  
 APPLICANT: Hillan, Kenneth C.  
 APPLICANT: Phillips, Heidi  
 APPLICANT: Polakis, Paul  
 APPLICANT: Spencer, Susan  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wu, Thomas  
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
 TITLE OF INVENTION: TREATMENT OF TUMOR

FILE REFERENCE: PCT/JP 00

CURRENT APPLICATION NUMBER: US/1024120

CURRENT FILING DATE: 2002-12-13

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 66

LENGTH: 672

TYPE: PRT

ORGANISM: Homo sapiens

US-10-241-220-66

Query Match 40.7%; Score 44; DB 12; Length 672;

Best Local Similarity 47.4%; Pred. No. 50.02;

Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 TVSHVILHGLNIGCVTSV 20

DB 248 TEHVHGHVGVGTSL 266

## RESULT 10

US-10-241-220-67  
 Sequence 67, Application US/1024120  
 Publication No. US20030149408A1

## GENERAL INFORMATION:

APPLICANT: Prantiz, Gretchen  
 APPLICANT: Hillan, Kenneth C.  
 APPLICANT: Phillips, Heidi  
 APPLICANT: Polakis, Paul  
 APPLICANT: Spencer, Susan  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wu, Thomas  
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
 TITLE OF INVENTION: TREATMENT OF TUMOR

FILE REFERENCE: P501CR1 US

CURRENT APPLICATION NUMBER: US/1024120

CURRENT FILING DATE: 2002-12-13

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 67

LENGTH: 877

TYPE: PRT

ORGANISM: Homo Sapien

US-10-241-220-67

Query Match 40.7%; Score 44; DB 12; Length 877;

Best Local Similarity 47.4%; Pred. No. 1.9e+02;

Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 TVSHVILHGLNIGCVTSV 20

DB 453 TEHVHGHVGVGTSL 471





```

; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: 8099, 46455, 54414, 53763, 67076, 67102, 44181.
; TITLE OF INVENTION: 67084FL, AND 67094 ALT, HUMAN PROTEINS AND METHODS OF
; TITLE OF INVENTION: USE THEREOF
; FILE REFERENCE: WNI-214CP
; CURRENT APPLICATION NUMBER: US/10/024,523
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 60/256,240
; PRIOR FILING DATE: 2000-12-15
; PRIOR APPLICATION NUMBER: US 60/256,588
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: US 60/256,628
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 1177
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-024-623-20

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```

Query Match      40.7%  Score 45; DB 14; Length 1177
Best Local Similarity 47.4%  Pred. No. 2.7e-02;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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```

QY      2 TVSHVILHGLNIHGNTSV 20
Db      753 TECHVIQRLVVDGTSL 77:

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```

RESULT 15
US-09-828-523A-18
; Sequence 18, Application US/09828523A
; Patent No. US2002016697A1
; GENERAL INFORMATION:
; APPLICANT: The Pharmacia & Upjohn Company
; TITLE OF INVENTION: ANTIMICROBIAL METHODS AND MATERIALS
; FILE REFERENCE: 268, 62:20101
; CURRENT APPLICATION NUMBER: US/09/828,523A
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: 60/266,327
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 707
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-828-523A-18

```

```

Query Match      39.8%  Score 43; DB 10; Length 707
Best Local Similarity 53.3%  Pred. No. 2.2e-02;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

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QY      1 RVSHVILHGLNIHG 15
Db      159 OTTHKILHTNDING 173

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Search completed: October 23, 2003, 11:01:49
JOB time : 21.75 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:13 , Search time 11.4 seconds  
(without alignments)  
74,230 Million cell updates/sec

Title: US-09-202-464-14

Perfect score: 108

Sequence: 1 RTVSHVILHGLNIHCNTSV 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 428717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :  
1: /cgn2\_6/ptodata/2/aa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/aa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/aa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/aa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/aa/PCFUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/aa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	97	89.8	370	3	US-08-467-023-97
2	91	84.3	367	3	US-08-467-023-95
3	69	63.9	20	3	US-08-467-023-37
4	69	63.9	374	3	US-08-467-023-2
5	44	40.7	1177	4	US-09-793-927-2
6	43	39.8	102	2	US-08-911-319A-4
7	43	39.8	102	3	US-09-352-619-4
8	42	38.9	391	1	US-08-290-448A-59
9	42	38.9	391	1	US-08-290-448A-59
10	42	38.9	391	1	US-08-175-069A-59
11	42	38.9	391	4	US-08-461-939B-59
12	42	38.9	391	4	US-08-461-939B-59
13	42	38.9	397	1	US-08-290-448A-76
14	42	38.9	397	1	US-08-290-448A-76
15	42	38.9	397	1	US-08-175-069A-76
16	42	38.9	397	4	US-08-461-939B-76
17	42	38.9	397	4	US-08-461-939B-76
18	42	38.9	398	1	US-08-290-448A-74
19	42	38.9	398	1	US-08-290-448A-74
20	42	38.9	398	1	US-08-175-069A-74
21	42	38.9	398	4	US-08-461-939B-74
22	42	38.9	398	4	US-08-461-939B-74
23	42	38.9	907	3	US-08-938-930-26
24	42	38.9	907	3	US-09-020-222-26
25	41	38.0	95	2	US-08-911-319A-5
26	41	38.0	95	3	US-09-352-619-5
27	41	38.0	366	4	US-09-134-001C-4799

29	41	38.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
29	41	38.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
30	41	38.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
31	41	38.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
32	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
33	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
34	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
35	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
36	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
37	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
38	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
39	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
40	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
41	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
42	40	37.0	371	4	US-08-290-991A-02127	Sequence 27, Appl
43	39.5	36.5	371	4	US-08-290-991A-02127	Sequence 27, Appl
44	39.5	36.5	371	4	US-08-290-991A-02127	Sequence 27, Appl
45	39	36.1	371	4	US-08-290-991A-02127	Sequence 27, Appl

## ADDITIONS

Result 1  
US-08-467-023-97  
Sequence 97, Application: Immunological Corporation, Inc.  
Patent No. 6090945  
GENERAL INFORMATION:  
APPLICANT: Griffith, Edwin C.  
APPLICANT: Pollock, George  
APPLICANT: Bond, Julian F.  
APPLICANT: Gatten, Richard D.  
APPLICANT: Kuo, Mei-Chang  
APPLICANT: Yung, Shu-shan  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunological Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Walham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1996  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Cape E. Retillard  
REGISTRATION NUMBER: 38,422  
REFERENCE/DOCKET NUMBER: 024, 024, 4 US/01-028CFD2  
TELEPHONE: 1617, 227, 7400  
TELEFAX: 1617, 227, 5941  
INFORMATION FOR SEQ ID NO: 97:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 370 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-97



1 TITLE OF INVENTION: Japanese Cedar Pollen  
2 NUMBER OF SEQUENCES: 261  
3 CORRESPONDENCE ADDRESS:  
4 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
5 STREET: 610 Lincoln St  
6 CITY: Waltham  
7 STATE: MA  
8 COUNTRY: USA  
9 ZIP: 02154  
10  
11 COMPUTER READABLE FORM:  
12 MEDIUM TYPE: Floppy disk  
13 COMPUTER: IBM PC compatible  
14 OPERATING SYSTEM: PC-DOS/MS-DOS  
15 SOFTWARE: PatentIn Release #1.0, Version #1.25  
16 CURRENT APPLICATION DATA: US/08/467,023  
17 FILING DATE: June 6, 1995  
18 CLASSIFICATION: 424  
19 PRIOR APPLICATION DATA:  
20 APPLICATION NUMBER: 08/350,225  
21 FILING DATE: December 6, 1994  
22 ATTORNEY/AGENT INFORMATION:  
23 NAME: Jane E. Remillard  
24 REGISTRATION NUMBER: 38,872  
25 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
26 TELEPHONE: (617) 227-7430  
27 TELEFAX: (617) 227-5941  
28 INFORMATION FOR SEQ ID NO: 2:  
29 SEQUENCE CHARACTERISTICS:  
30 LENGTH: 374 amino acids  
31 TYPE: amino acid  
32 TOPOLOGY: linear  
33 MOLECULE TYPE: protein  
34 US-38-467-023-2

Query Match 63.9% Score 69; DB 3; Length 374;  
Best Local Similarity 60.08; Pred. No. C.0045;  
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

CY 1 RTVSHVILHGLNHGNTSV 20  
DB 132 KRVSNVILHGLYLGCTSV 151

RESULT 5  
US-09-795-927-2  
Sequence 2, Application US/09795927  
Patent No. 6531309  
GENERAL INFORMATION:  
APPLICANT: Walke, D. Wade  
APPLICANT: Hu, Yi  
APPLICANT: Wilganowski, Nathaniel L.  
APPLICANT: Kieke, James A.  
APPLICANT: Zambrowicz, Brian  
APPLICANT: Revelli, Jean-Pierre  
APPLICANT: Turner, C. Alexander Jr.  
TITLE OF INVENTION: Same  
FILE REFERENCE: LEX-0141-USA  
CURRENT APPLICATION NUMBER: US/09/795,927  
CURRENT FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: US 60/185,956  
PRIOR FILING DATE: 2000-02-29  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 177  
TYPE: PRT  
ORGANISM: homo sapiens  
US-09-795-927-2

Query Match 40.7% Score 44; DB 4; Length 177;

Best Local Similarity 42.4% Pred. No. 12e+02;  
Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;  
CY 2 TVSHVILHGLNHGNTSV 20  
DB 763 PEDVIVHGLAVGJTSLSI 101

RESULT 6  
US-08-911-319A-4  
Sequence 4, Application US/08/319A  
Patent No. 5968798  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Corley, Neil C.  
TITLE OF INVENTION: HUMAN GLUTAREDOXIN BETA  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: InVivo Pharmaceuticals, Inc.  
STREET: 1174 Foothill Blvd.  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/311,104  
FILING DATE: August 14, 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Muenzer, George  
REGISTRATION NUMBER: 33,944  
REFERENCE/DOCKET NUMBER: PF 0161 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4124  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 102 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 132424  
US-08 911 319A 4

Query Match 49.8% Score 43; DB 2; Length 102;  
Best Local Similarity 42.1% Pred. No. 12f;  
Matches 8; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

CY 1 PTVSHVILHGLNHGNTSV 19  
DB 65 RTVNVVFGGKHGCTST 81

RESULT 7  
US 09-352 619-4  
Sequence 4, Application US/09352619  
Patent No. 604010  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Corley, Neil C.  
APPLICANT: Shah, Parv  
TITLE OF INVENTION: HUMAN GLUTAREDOXIN BETA  
NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 STREET: 3174 Porter Dr.  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/352,619  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/911,319  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Muenzen, Colette C.  
 REGISTRATION NUMBER: 39,784  
 REFERENCE/DOCKET NUMBER: PF-0363 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 650-855-0555  
 TELEFAX: 650-845-4166  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 102 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 IMMEDIATE SOURCE:  
 LIBRARY: GenBank  
 CLONE: 1732424  
 US 09-352-619-4

Query Match 39.8% Score 43: DB 3: length 102;

Best Local Similarity 42.1% Pred. No. 12;  
 Matches 8: Conservative 6: Mismatches 5: Indels 3: Gaps 0:

Oy 1 RTVSHVILHGLNHGCGNTS 19  
 | | | | | | | | | |  
 Db 65 RTVENVFGKHGCGDST 83

RESULT 8  
 US-08-290-448A-59  
 Sequence 59, Application US/08290448A  
 Patent No. 5676954  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-chang  
 TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD  
 STREET: 60 State Street, suite 510  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/290,448A  
 FILING DATE: August 15, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: March 17, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragoras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-018CN  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-6941  
 INFORMATION FOR SEQ ID NO: 59:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 391 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US 08 290 448A 59  
 Query Match 42.1% Score 47: DB 3: length 391;  
 Best Local Similarity 42.8% Pred. No. 14;  
 Matches 8: Conservative 4: Mismatches 2: Indels 0: Gaps 0:

Oy 3 VSMVILHGLNH 14  
 | | | | |  
 Db 153 VKNLTCHNIN 164

RESULT 9  
 US-08 290 448A 59  
 Sequence 59, Application US/08290448A  
 Patent No. 5695204  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-chang  
 TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD  
 STREET: 60 State Street, suite 510  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/290,448A  
 FILING DATE: August 15, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: March 17, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragoras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-018CN  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-6941  
 INFORMATION FOR SEQ ID NO: 59:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 391 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-290-448A-59



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? SOFTWARE: PatentIn Release #1.0, Version #1.05
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/464,000
? FILING DATE: 05-JUN-1995
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/290,448
? FILING DATE: 15-AUG-1994
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: 29-MAY-1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: 17-MAR-1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragoras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-C18CN2
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617)227-7400
? TELEFAX: (617)227-5941
? INFORMATION FOR SEQ ID NO: 59:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 391 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-464-000-59

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Query Match: 38.9%; Score 42; DR 1; Length 391;
Best Local Similarity: 50.0%; Pred. No. 74;
Matches: 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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QY 3 VSHVILHGLN1H 14
DB 153 VKNIIHN1H 164

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RESULT 13
US-08-290-448A-76
? Sequence 76, Application US/08290448A
? Patent No. 5676954
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Rafnar, Thorunn
? APPLICANT: Kuo, Yei-chang
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.05
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: May 29, 1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: March 17, 1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragoras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-C18CN
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617)227-7400
? TELEFAX: (617)227-5941

```

```

? INFORMATION FOR SEQ ID NO: 59:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 391 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-290-448A-76
Query Match: 38.9%; Score 42; DR 1; Length 391;
Best Local Similarity: 50.0%; Pred. No. 74;
Matches: 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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```

QY 3 VSHVILHGLN1H 14
DB 153 VKNIIHN1H 164

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RESULT 14
US-08-290-448A-76
? Sequence 76, Application US/08290448A
? Patent No. 5676954
? GENERAL INFORMATION:
? APPLICANT: Rogers, Bruce
? APPLICANT: Klapper, David G.
? APPLICANT: Rafnar, Thorunn
? APPLICANT: Kuo, Yei-chang
? TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: LAHIVE & COCKFIELD
? STREET: 60 State Street, suite 510
? CITY: Boston
? STATE: Massachusetts
? COUNTRY: USA
? ZIP: 02109-1875
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.05
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,448A
? FILING DATE: August 15, 1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/529,951
? FILING DATE: May 29, 1990
? APPLICATION NUMBER: US 07/325,365
? FILING DATE: March 17, 1989
? ATTORNEY/AGENT INFORMATION:
? NAME: Amy E. Mandragoras
? REGISTRATION NUMBER: 36,207
? REFERENCE/DOCKET NUMBER: IMI-C18CN
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617)227-7400
? TELEFAX: (617)227-5941
? INFORMATION FOR SEQ ID NO: 59:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 391 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-290-448A-76
Query Match: 38.9%; Score 42; DR 1; Length 391;
Best Local Similarity: 50.0%; Pred. No. 74;
Matches: 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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QY 3 VSHVILHGLN1H 14
DB 153 VKNIIHN1H 164

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RESULT 15

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US-08-175-069A-76  
 ; Sequence 76, Application US/08175069A  
 ; Patent No. 5776761  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-chang  
 ; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ; STREET: 60 State Street  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/175,069A  
 ; FILING DATE: December 29, 1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/529,951  
 ; FILING DATE: May 29, 1990  
 ; APPLICATION NUMBER: US 07/325,365  
 ; FILING DATE: March 17, 1989  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Amy E. Mandragouras  
 ; REGISTRATION NUMBER: 36,207  
 ; REFERENCE/DOCKET NUMBER: IMI-0180V  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400  
 ; TELEFAX: (617)227-5941  
 ; INFORMATION FOR SEQ ID NO: 76:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 397 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-175-069A-76

Query Match 38.9% Score 42; DB 1; Length 197;  
 Best Local Similarity 50.0%; Pred. No. 75;  
 Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Oy 3 VSHVILHGLNIH 14  
 | : : : : :  
 Db 159 VKNIHNIHNIH 170

Search completed: October 23, 2003, 09:55:25  
 Job time : 12.4 secs





```
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match      74.7%  Score 747  DB 117  Length 346
Best Local Similarity 73.7%  Pred. No. 0.00099
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      2 GNVLISEASGVVPVHAQCG 20
Db      153 GDVLVSESIGVEPVHAQCG 150

RESULT 3
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082192A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Cedar white cedar)
US-09-847-208-109

Query Match      74.7%  Score 747  DB 117  Length 367
Best Local Similarity 73.7%  Pred. No. 0.000927
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      2 GNVLISEASGVVPVHAQCG 20
Db      153 GDVLVSESIGVEPVHAQCG 171

RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082192A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match      74.7%  Score 747  DB 117  Length 374
Best Local Similarity 73.7%  Pred. No. 0.00147
Matches 14; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      2 GNVLISEASGVVPVHAQCG 20
Db      153 GDVLVSESIGVEPVHAQCG 171

RESULT 5
US-09-354-240-42
; Sequence 42, Application US/010354240
; Publication No. US20030185817A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akioyuki
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Ikawa, Akiko
; APPLICANT: Kuro, Katsuko
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis
; FILE REFERENCE: SEQ ID NO 1
; CURRENT APPLICATION NUMBER: US/01/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PFT/1897/00740
; PRIOR FILING DATE: 1997-01-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MIST PEPTIDE
; LOCATION: 131-135
; OTHER INFORMATION: Cys1 peptide, Figure 1, Row 28
US 10 144-240-42

Query Match      62.5%  Score 321  DB 127  Length 157
Best Local Similarity 64.5%  Pred. No. 0.00587
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      6 LSEASGVVPVHAQCG 10
Db      1 INESGVVPVHAQCG 15

RESULT 6
US-10 354-240-41
; Sequence 41, Application US/010354240
; Publication No. US20030185817A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akioyuki
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Ikawa, Akiko
; APPLICANT: Kuro, Katsuko
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis
; FILE REFERENCE: SEQ ID NO 1
; CURRENT APPLICATION NUMBER: US/01/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PFT/1897/00740
; PRIOR FILING DATE: 1997-01-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MIST PEPTIDE
; LOCATION: 131-135
; OTHER INFORMATION: Cys1 peptide, Figure 1, Row 28
US 10 354-240-41
```

NAME/KEY: MISC\_FEATURE  
LOCATION: (1) (15)  
OTHER INFORMATION: CRYJ1 peptide, Figure 1, Row 27  
US-10-354-240-41

Query Match 48.5%; Score 48; DB 12; Length 15;  
Best Local Similarity 71.4%; Pred. No. 0.26;  
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0

OY 2 GNVLISEASGVVPV 15  
DB 2 GNVLINESFGVEPV 15

RESULT 7  
US-10-348-167-29  
Sequence 29, Application US/10148167  
Publication No. US20030143693A;  
GENERAL INFORMATION:  
APPLICANT: Silbiger, Scott M.  
Koski, Raymond A.  
TITLE OF INVENTION: Tissue Inhibitor Metalloproteinase Type  
Three (TIMP-3) Composition and Methods  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: District of Columbia  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOCS  
SOFTWARE: Patent In Release #1.0, Version #1.10  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/348,167  
FILING DATE: 22-Jan-2003  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/134,231  
FILING DATE: October 6, 1993  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 212 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 29:  
US-10-348-167-29

Query Match 45.5%; Score 45; DB 12; Length 15;  
Best Local Similarity 53.3%; Pred. No. 19;  
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0

OY 5 L1SEASGVVPVHACD 19  
DB 20 LVAEACTCVZHPQD 34

RESULT 8  
US-10-354-240-43  
Sequence 43, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akinoi  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwano, Akiko  
APPLICANT: Kuno, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

FILE REFERENCE: SPC-12100  
CURRENT APPLICATION NUMBER: US/10/348,167  
CURRENT FILING DATE: 2003-01-23  
PRIOR APPLICATION NUMBER: PCT/US99/06941  
PRIOR FILING DATE: 1997-01-19  
PRIOR APPLICATION NUMBER: US 96/142,024  
PRIOR FILING DATE: 1994-01-20  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: Patent In Version 3.1  
SEQ ID NO 43  
LENGTH: 15  
TYPE: PP  
ORGANISM: Cryptosporidium parvum  
FEATURE:  
NAME/KEY: MISC\_FEATURE  
LOCATION: (1) (15)  
OTHER INFORMATION: CRYJ1 peptide, Figure 1, Row 29  
US-10-354-240-43

Query Match 47.8%; Score 43; DB 12; Length 15;  
Best Local Similarity 47.8%; Pred. No. 107;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0

OY 11 GVVVFVHAQGS 20  
DB 1 GVEPVHPQGS 10

RESULT 9  
US-10-101-464A-811  
Sequence 811, Application US/101464A  
Publication No. US20030046728A1  
GENERAL INFORMATION:  
APPLICANT: Strakala, Timothy  
APPLICANT: Nieuwenhuizen, Nicolaas  
APPLICANT: Higgins, Colleen M.  
TITLE OF INVENTION: Compositions Isolated from Plant Cells  
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Stimulus  
FILE REFERENCE: 1000-102962  
CURRENT APPLICATION NUMBER: US/10/101,464A  
CURRENT FILING DATE: 2002-04-18  
PRIOR APPLICATION NUMBER: 09/704,392  
PRIOR FILING DATE: 2000-11-01  
PRIOR APPLICATION NUMBER: 09/728,966  
PRIOR FILING DATE: 1999-01-12  
PRIOR APPLICATION NUMBER: 60/162,844  
PRIOR FILING DATE: 1999-11-01  
PRIOR APPLICATION NUMBER: PCT/US97/0724  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patent In Version 4.0  
SEQ ID NO 811  
LENGTH: 63  
TYPE: PPT  
ORGANISM: Escherichia grandis  
US-10-101-464A 811

Query Match 47.8%; Score 43; DB 15; Length 63;  
Best Local Similarity 47.8%; Pred. No. 158-02;  
Matches 3; Conservative 3; Mismatches 6; Indels 0; Gaps 0

OY 4 VLISEASGVVPVHACD 20  
DB 429 LALGTARGIAHVGKNG 445

RESULT 10  
US-10-156-761-14:35  
Sequence 14135, Application US/10156761  
Publication No. US2003019018A1  
GENERAL INFORMATION:  
APPLICANT: OKURA, SATOSHI  
APPLICANT: IKEDA, HARUO

? APPLICANT: ISHIKAWA, JUN  
 ? APPLICANT: HORIKAWA, HIROSHI  
 ? APPLICANT: SHIBA, TADAYOSHI  
 ? APPLICANT: SAKAKI, YOSHIYUKI  
 ? APPLICANT: HATTORI, KASAHIRA  
 ? TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ? FILE REFERENCE: 249-262  
 ? CURRENT APPLICATION NUMBER: US/15/156,761  
 ? PRIOR FILING DATE: 2002-05-29  
 ? PRIOR APPLICATION NUMBER: JP 2001-204049  
 ? PRIOR FILING DATE: 2001-05-30  
 ? PRIOR APPLICATION NUMBER: JP 2001-272607  
 ? PRIOR FILING DATE: 2001-08-02  
 ? NUMBER OF SEQ ID NOS: 15109  
 ? SEQ ID NO 14135  
 ? LENGTH: 929  
 ? TYPE: PRT  
 ? ORGANISM: Streptomyces avermitilis  
 US-10-156-761-14135

Query Match 42.9%; Score 42.5; DB 15; Length 129;  
 Best Local Similarity 37.5%; Pred. No. 2,ae-03;  
 Matches 9; Conservative 6; Mismatches 4; Indels 5; Gaps 1;

QY 1 SCN-----VLISEAGVVPVHAQD 19  
 Db 69 NGNATLAQLLKQAFGTDPDHAED 92

RESULT 11  
 US-09-833-740 5  
 ? Sequence 5, Application US/C9833740  
 ? Patent No. US20020045173A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: DRUCKER, DANIEL C.  
 ? APPLICANT: LOVSHIN, JULIE  
 ? TITLE OF INVENTION: GLP-2 RECEPTOR GENE PROMOTER AND USES THEREOF  
 ? FILE REFERENCE: 016777/0463  
 ? CURRENT APPLICATION NUMBER: US/C9/833,740  
 ? CURRENT FILING DATE: 2001-04-13  
 ? PRIOR APPLICATION NUMBER: 60/196,909  
 ? PRIOR FILING DATE: 2000-04-13  
 ? PRIOR APPLICATION NUMBER: 60/265,310  
 ? PRIOR FILING DATE: 2001-02-01  
 ? NUMBER OF SEQ ID NOS: 18  
 ? SOFTWARE: Patentin Ver. 2.1  
 ? SEQ ID NO 5  
 ? LENGTH: 42  
 ? TYPE: PRT  
 ? ORGANISM: Rattus sp.  
 US-09-833-740-5

Query Match 42.4%; Score 42; DB 9; Length 42;  
 Best Local Similarity 61.5%; Pred. No. 8,4;  
 Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 ISEAGVVPVHAQ 18  
 Db 28 IPEAGVVPVHSC 40

RESULT 12  
 US-10-330 661-14  
 ? Sequence 14, Application US/10330661  
 ? Publication No. US20030135879A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Weeks, Donald  
 ? APPLICANT: Wang, Xiao-Zhuo  
 ? TITLE OF INVENTION: Methods and Materials for Making and Using Transgenic Drosophila  
 ? FILE REFERENCE: 3553-18-1  
 ? CURRENT APPLICATION NUMBER: US/10/330,661;

? CURRENT FILING DATE: 2002-10-29  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? PRIOR FILING DATE: 2001-02-24  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? PRIOR FILING DATE: 1999-04-13  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? PRIOR FILING DATE: 1997-04-04  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? NUMBER OF SEQ ID NOS: 14  
 ? SOFTWARE: Patentin version 1  
 ? SEQ ID NO 14  
 ? LENGTH: 104  
 ? TYPE: PRT  
 ? ORGANISM: Pseudomonas sp.  
 US-10-330-661-14

Query Match 42.4%; Score 42; DB 15; Length 105;  
 Best Local Similarity 58.8%; Pred. No. 25;  
 Matches 10; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

QY 4 VLISEAGVVPVHAQD 19  
 Db 4 VFIIEGSGEAVVHAQDQ 20

RESULT 13  
 US-10-330-662-14  
 ? Sequence 14, Application US/10330662,  
 ? Publication No. US2003013626A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Weeks, Donald  
 ? APPLICANT: Wang, Xiao-Zhuo  
 ? TITLE OF INVENTION: Methods and Materials for Making and Using Transgenic Drosophila  
 ? FILE REFERENCE: 3553-18-1  
 ? CURRENT APPLICATION NUMBER: US/10-330,662  
 ? CURRENT FILING DATE: 2002-10-29  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? PRIOR FILING DATE: 2001-02-24  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? PRIOR FILING DATE: 1999-04-13  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? PRIOR FILING DATE: 1997-04-04  
 ? PRIOR APPLICATION NUMBER: US/09/090,109  
 ? NUMBER OF SEQ ID NOS: 14  
 ? SOFTWARE: Patentin version 1.0  
 ? SEQ ID NO 14  
 ? LENGTH: 105  
 ? TYPE: PRT  
 ? ORGANISM: Pseudomonas sp.  
 US-10-330-662-14

Query Match 42.4%; Score 42; DB 15; Length 105;  
 Best Local Similarity 58.8%; Pred. No. 25;  
 Matches 10; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

QY 4 VLISEAGVVPVHAQDQ 20  
 Db 4 VFIIEGSGEAVVHAQDQ 20

RESULT 14  
 US-10-332-199-125  
 ? Sequence 125, Application US/10032199  
 ? Publication No. US2003017961A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Alsobrook II, John P  
 ? APPLICANT: Tchernev, Velizar T  
 ? APPLICANT: Liu, Xiaohong  
 ? APPLICANT: Spytek, Kimberly A

```

1  APPLICANT: Zerhusen, Bryan D
2  APPLICANT: Patturajan, Meera
3  APPLICANT: Grosse, William M
4  APPLICANT: Lepley, Denise M
5  APPLICANT: Burgess, Catherine E
6  APPLICANT: Shinkets, Richard A
7  APPLICANT: Grosse, William M
8  APPLICANT: Szekeres, Edward S
9  APPLICANT: Vernet, Corine A.M.
10 APPLICANT: Li, Li
11 APPLICANT: Casran, Stacie J
12 APPLICANT: Boldog, Ferenc L
13 APPLICANT: Gorman, Linda
14 APPLICANT: Gangoli, Esha A
15 APPLICANT: Fernandes, Elma R
16 APPLICANT: Rieger, Daniel K
17 APPLICANT: Edinger, Shlomit R
18 APPLICANT: Gunther, Erik
19 APPLICANT: Millet, Isabelle
20 APPLICANT: Sciore, Paul
21 APPLICANT: Elberman, Karen
22 APPLICANT: MacDougall, John R
23 APPLICANT: Smithson, Glenda
24 TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
25 FILE REFERENCE: 21402-228
26 CURRENT APPLICATION NUMBER: US/10/032,189
27 CURRENT FILING DATE: 2001-12-21
28 PRIOR APPLICATION NUMBER: 60/257,495
29 PRIOR FILING DATE: 2000-12-21
30 PRIOR APPLICATION NUMBER: 60/258,171
31 PRIOR FILING DATE: 2000-12-20
32 PRIOR APPLICATION NUMBER: 60/269,940
33 PRIOR FILING DATE: 2001-02-20
34 PRIOR APPLICATION NUMBER: 60/274,192
35 PRIOR FILING DATE: 2001-03-08
36 PRIOR APPLICATION NUMBER: 60/277,826
37 PRIOR FILING DATE: 2001-03-22
38 PRIOR APPLICATION NUMBER: 60/279,840
39 PRIOR FILING DATE: 2001-03-29
40 PRIOR APPLICATION NUMBER: 60/282,981
41 PRIOR FILING DATE: 2001-04-11
42 PRIOR APPLICATION NUMBER: 60/283,656
43 PRIOR FILING DATE: 2001-04-13
44 PRIOR APPLICATION NUMBER: 60/309,247
45 PRIOR FILING DATE: 2001-07-31
46 PRIOR APPLICATION NUMBER: 60/311,754
47 PRIOR FILING DATE: 2001-08-17
48 PRIOR APPLICATION NUMBER: 60/313,331
49 PRIOR FILING DATE: 2001-08-17
50 NUMBER OF SEQ ID NOS: 260
51 SOFTWARE: Patent In Ver. 2.1
52 SEQ ID NO 125
53 LENGTH: 707
54 TYPE: PRT
55 ORGANISM: Artificial Sequence
56 FEATURE:
57 OTHER INFORMATION: Description of Artificial Sequence: Glyc
58 OTHER INFORMATION: hydrophases family 11
59 GS-10-C32-189-125

```

```

? GENERAL INFORMATION:
? APPLICANT: Leach, Martin G
? APPLICANT: Vechrabun, Fudat
? APPLICANT: Conley, Pamela
? APPLICANT: Law, Debbie
? APPLICANT: Copper, Jason
? TITLE OF INVENTION: NO. US0608693A-4-4 Polynucleotides from Antigenomic Cells as
? TITLE OF INVENTION: Thereby
? FILE REFERENCE: 214C2-013 (USA) 113
? CURRENT APPLICATION NUMBER: US79/06401,556
? CURRENT FILING DATE: 2001-09-26
? PRIOR APPLICATION NUMBER: US66-037,429
? PRIOR FILING DATE: 2000-09-26
? NUMBER OF SEQ ID NOS: 2174
? SOFTWARE: FAST-SQ for Windows Version 4.1
? SEQ ID NO: 1762
? LENGTH: 12
? SEQUENCE:
? ORGANISM: Homo sapiens
US-09-567-550-1762

Query Match          41.4%   Score 41   DB 97   Length 72
Best Local Similarity 46.7%   Prod No: 247
Matches              7; Conservative      3; Mismatches    5; Indels      0; Gaps      0

OF           5 DISSEMINATED 13
DB           6 DISSEMINATED 20

Search completed: October 21, 2001, 11:01:47
Job time : 20.76 secs

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1 OPERATING SYSTEM: PROTEOMICS 1.0
2 SOFTWARE: Patent In Release #1.0, Version #1.0.25
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: US/96/467,233
5 FILING DATE: June 6, 1995
6 CLASSIFICATION: 424
7 PRIOR APPLICATION DATA:
8 APPLICATION NUMBER: 04/456,224
9 FILING DATE: December 6, 1994
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Jane E. Reuland
12 REGISTRATION NUMBER: 34,870
13 REFERENCE/DOCKET NUMBER: 235,6 2852 (IMI 028CP02)
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (617) 227-3476
16 TELEFAX: (617) 227-3741
17 INFORMATION FOR SEQ ID NO: 1:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 474 amino acids
20 TYPE: amino acid
21 TOPOLOGY: linear
22 MOLECULE TYPE: protein
23
24 US-08 467-021-2
25
26 Query Match 77.73, Score 70, DB 3, Length 374
27 Best Local Similarity 70.73, Field No. 028541
28 Matches 14, Conservative 27, Mismatches 3, Indels
29
30 CY 2 GNVLSSEASGVVEVACIG 20
31
32 Db 15A GNVLSSEASGVVEVACIG 20
33
34 RESULT 6
35 US-08-181-aa1-6
36 Sequence 6, Application US-08aa181
37 Patent No. 5019064
38 GENERAL INFORMATION:
39 APPLICANT: SAVALEGHI, PAUL H. M.
40 APPLICANT: GAASIPA, WILLIAM
41 TITLE OF INVENTION: BORRELIA BOUTHEILLERII VACCINE
42 NUMBER OF SEQUENCES: 6
43 CORRESPONDENCE ADDRESS:
44 ADDRESSEE: STEVENS, DAVID, MILLER & MOSHER
45 STREET: 515 NORTH WASHINGTON STREET,
46 CITY: ALEXANDRIA
47 STATE: VIRGINIA
48 COUNTRY: USA
49 ZIP: 22314
50 COMPUTER READABLE FORM:
51 MEDIUM TYPE: floppy disk
52 COMPUTER: IBM PC compatible
53 OPERATING SYSTEM: PC DOS/MS DOS
54 SOFTWARE: Patent In Release #1.0, Version #1.0.25
55 CURRENT APPLICATION DATA:
56 APPLICATION NUMBER: US/96/467,233
57 FILING DATE:
58 CLASSIFICATION: 514
59 ATTORNEY/AGENT INFORMATION:
60 NAME: POULOS III, JAMES A.
61 REGISTRATION NUMBER: 31,714
62 REFERENCE/DOCKET NUMBER: JEP 23684
63 TELECOMMUNICATION INFORMATION:
64 TELEPHONE: 703 549 7300
65 TELEFAX: 703 528-5313
66 TELEX: 44-0704 "STEVENS"
67 INFORMATION FOR SEQ ID NO: 4:
68 SEQUENCE CHARACTERISTICS:
69 LENGTH: 207 amino acids
70 TYPE: amino acid
71 TOPOLOGY: linear
72 MOLECULE TYPE: protein
73
74 US-08-381-681-6

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RESULT 12  
US-08-467-023-4C  
: Sequence 40, Application US/08467023  
: Patent No. 6090386  
: GENERAL INFORMATION:  
: APPLICANT: Giffeth, Irwin J.;  
: APPLICANT: Pollock, Joanne;  
: APPLICANT: Bond, Julian F.;  
: APPLICANT: Garman, Richard D;  
: APPLICANT: Kuo, Mei-Chang;  
: APPLICANT: Yeung, Siu-mei H.;  
: APPLICANT: Brauer, Andrew;  
: APPLICANT: Exley, Mark A.;  
: APPLICANT: Powers, Steven P.  
: TITLE OF INVENTION: Allergenic Proteins And Repetides From  
: TITLE OF INVENTION: Japanese Cedar Pollen  
: NUMBER OF SEQUENCES: 261

Query Match: 43.48; Score 43; DB 4; Length 251;  
Best Local Similarity 69.28; Pred. No. 18;  
Matches 9; Conservative 2; Mismatches 2; Index's

CY 8 EASGVVPVHAQDG 20  
|:|:|:|:|:|:  
Db 51 EAAGVCDHARDG 63

## RESULT 14

US-09-252-991A-18583  
; Sequence 18583, Application US/09252991A  
; Patent NO. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252.991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074.788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094.190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 18583  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-18583

Query Match 43.4%; Score 43; DB 4; Length 273;  
Best Local Similarity 50.0%; Pred. No. 20;  
Matches 9; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

CY 2 GNVLISEASGVVPVHAQD 19  
|:|:|:|:|:|:  
Db 125 GGVVARGVGHVAVHSCD 142

## RESULT 15

US-09-252-991A-31017  
; Sequence 31017, Application US/09252991A  
; Patent NO. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252.991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074.788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094.190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 31017  
; LENGTH: 444  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31017

Query Match 42.4%; Score 42; DB 4; Length 444;  
Best Local Similarity 41.2%; Pred. No. 55;  
Matches 7; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

CY 2 GNVLISEASGVVPVHAQ 18  
|:|:|:|:|:|:  
Db 154 GCAVVPVADGVAVHGE 170

Search completed: October 23, 2003, 09:55:27  
Job time 13.4 secs

GenCore version 5.1.6  
Copyright (c) 1991 - 2001 CompuGen Ltd.

CM protein - protein search, using sw mode!

Run on: October 23, 2003, 09:56:14 : Search time 12.70 seconds  
(without alignment)  
169,587 Million cell updates/sec

Title: US-09-202-464-17

Perfect score: 104

Sequence: : GVVPVHAGDGAITMNVTD 20

Scoring table: GAP09 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460530 residues

Total number of hits satisfying chosen parameters: 43402

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.rep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PC7\_NEW\_PUB.rep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.rep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.rep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.rep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PC7US\_PUBCOMB.rep.\*
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- 13: /cgn2\_6/ptodata/1/pubpaa/US0A\_PUBCOMB.rep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US0B\_PUBCOMB.rep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US0C\_PUBCOMB.rep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.rep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.rep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.rep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	375	11	US-09-847-208-59
2	93	89.4	346	11	US-09-847-208-67
3	93	89.4	367	11	US-09-847-208-104
4	73	70.2	374	11	US-09-847-208-68
5	62	59.6	15	12	US-10-354-240-43
6	54	51.9	15	12	US-10-354-240-44
7	50	48.1	64	15	US-10-156-761-9013
8	46	44.2	1371	9	US-09-232-809-4
9	45	43.3	370	10	US-09-738-626-3768
10	45	43.3	370	10	US-09-738-626-5177
11	44	42.3	31	15	US-10-155-407A-12
12	44	42.3	168	12	US-10-238-075-1270
13	44	42.3	260	10	US-09-825-012-3
14	44	42.3	260	14	US-10-133-065-4
15	44	42.3	260	14	US-10-074-509-4

16	44	42.3	260	14	US-10-005-106-1	Sequence 1, Appl
17	44	42.3	260	14	US-10-005-106-2	Sequence 2, Appl
18	44	42.3	260	14	US-10-005-106-3	Sequence 3, Appl
19	44	42.3	260	14	US-10-005-106-4	Sequence 4, Appl
20	44	42.3	260	14	US-10-005-106-5	Sequence 5, Appl
21	44	42.3	260	14	US-10-005-106-6	Sequence 6, Appl
22	44	42.3	260	14	US-10-005-106-7	Sequence 7, Appl
23	44	42.3	260	14	US-10-005-106-8	Sequence 8, Appl
24	44	42.3	260	14	US-10-005-106-9	Sequence 9, Appl
25	44	42.3	260	14	US-10-005-106-10	Sequence 10, Appl
26	44	42.3	260	14	US-10-005-106-11	Sequence 11, Appl
27	44	42.3	260	14	US-10-005-106-12	Sequence 12, Appl
28	44	42.3	260	14	US-10-005-106-13	Sequence 13, Appl
29	44	42.3	260	14	US-10-005-106-14	Sequence 14, Appl
30	44	42.3	260	14	US-10-005-106-15	Sequence 15, Appl
31	44	42.3	260	14	US-10-005-106-16	Sequence 16, Appl
32	44	42.3	260	14	US-10-005-106-17	Sequence 17, Appl
33	44	42.3	260	14	US-10-005-106-18	Sequence 18, Appl
34	44	42.3	260	14	US-10-005-106-19	Sequence 19, Appl
35	44	42.3	260	14	US-10-005-106-20	Sequence 20, Appl
36	44	42.3	260	14	US-10-005-106-21	Sequence 21, Appl
37	44	42.3	260	14	US-10-005-106-22	Sequence 22, Appl
38	44	42.3	260	14	US-10-005-106-23	Sequence 23, Appl
39	44	42.3	260	14	US-10-005-106-24	Sequence 24, Appl
40	44	42.3	260	14	US-10-005-106-25	Sequence 25, Appl
41	44	42.3	260	14	US-10-005-106-26	Sequence 26, Appl
42	44	42.3	260	14	US-10-005-106-27	Sequence 27, Appl
43	44	42.3	260	14	US-10-005-106-28	Sequence 28, Appl
44	44	42.3	260	14	US-10-005-106-29	Sequence 29, Appl
45	44	42.3	260	14	US-10-005-106-30	Sequence 30, Appl

ALIGNMENTS

RESULT 1  
US-09-847-208-59  
: Sequence 58: Application: US-09-847-208-59  
: Publication No.: US2003004247A1  
: GENERAL INFORMATION:  
: APPLICANT: Saxon, Andrew  
: APPLICANT: Zhang, Zu  
: APPLICANT: Zhu, Baocheng  
: TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
: TITLE OF INVENTION: TGF MEDLATED ALZHEIMER DISEASES  
: FILE REFERENCE: J067,002A  
: CURRENT APPLICATION NUMBER: US/09-847,208  
: CURRENT FILING DATE: 2001-05-01  
: NUMBER OF SEQ ID NOS: 177  
: SOFTWARE: FASTSEQ for Windows Version 4.0  
: SEQ ID NO: 58  
: LENGTH: 375  
: TYPE: PRT  
: ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-58

Query Match 100.0%, Score: 104, DB ID: 11  
Best Local Similarity 100.0%, Pctd No: 4, Seq No: 59  
Matches 20, Conservative 0, Mismatches 0, Indels 0, Gaps 0

QV : GVVPVHAGDGAITMNVTD 20

DE : GVVPVHAGDGAITMNVTD 19:

RESULT 2

US-09-847-208-57  
: Sequence 67: Application: US/9847208  
: Publication No.: US20030082192A1  
: GENERAL INFORMATION:  
: APPLICANT: Saxon, Andrew  
: APPLICANT: Zhang, Ke  
: APPLICANT: Zhu, Baocheng



NAME/KEY: MISC FEATURE  
 LOCATION: (11,115)  
 OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 32  
 US-10-354-240-44

Query Match 51.9%; Score 54; DB 12; Length 15;  
 Best Local Similarity 60.0%; Pred. No. 0.022;  
 Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 6 HAQDGDALTMRNVTD 20  
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 DB 1 HPQDGDALTMRNVTD 15

RESULT 7  
 US-10-156-761-9013  
 ; Sequence 9013, Application US/10156761  
 ; Publication No. US20030119018A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: OMURA, SATOSHI  
 ; APPLICANT: IKEDA, HARUO  
 ; APPLICANT: ISHIKAWA, JUN  
 ; APPLICANT: HORIKAWA, HIROSHI  
 ; APPLICANT: SHIBA, TADAYOSHI  
 ; APPLICANT: SAKAKI, YOSHIYUKI  
 ; APPLICANT: HATTORI, MASAHIRA  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-262  
 ; CURRENT APPLICATION NUMBER: US/10/156,761  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-204589  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIOR APPLICATION NUMBER: JP 2001-272497  
 ; PRIOR FILING DATE: 2001-08-02  
 ; NUMBER OF SEQ ID NOS: 15109  
 ; SEQ ID NO 9013  
 ; LENGTH: 64  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermitilis  
 US-10-156-761-9013

Query Match 48.1%; Score 52; DB 15; Length 64;  
 Best Local Similarity 57.9%; Pred. No. 0.54;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 VVPVHAQDGDALTMRNVTD 20  
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 DB 21 VTPSHAVDGDVIGDLNVND 39

RESULT 8  
 US-09-272-809-4  
 ; Sequence 4, Application US/09272809  
 ; Patent No. US20020022239A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jagarias, John C.  
 ; TITLE OF INVENTION: Phytoflors as fluorescent labels  
 ; FILE REFERENCE: 2500.118U50  
 ; CURRENT APPLICATION NUMBER: US/09/272,809  
 ; CURRENT FILING DATE: 1998-03-19  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: Patent In Ver. 2.0  
 ; SEQ ID NO 4  
 ; LENGTH: 137;  
 ; TYPE: PRT  
 ; ORGANISM: Unknown  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Unknown: Organism: cph4 locus SLL124  
 ; OTHER INFORMATION: (divJ homolog: PAS domain) a 1372 aa protein that  
 ; OTHER INFORMATION: is more similar to rc4E than to cph1  
 US-09-272-809-4

Query Match 44.2%; Score 46; DB 9; Length 137;

Best Local Similarity 50.0%; Pred. No. 88;  
 Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 VVPVHAQDGDALTMRNVTD 20  
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 DB 524 VPHMQDGLCRATVSDVTD 145

RESULT 9  
 US-09-738-626-3168  
 ; Sequence 3769, Application US/09316826  
 ; Publication No. US2002013065A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: NAKAGAWA, SATOSHI  
 ; APPLICANT: MIZOGUCHI, HIROSHI  
 ; APPLICANT: ANDO, SEIKO  
 ; APPLICANT: HAYASHI, KEIKO  
 ; APPLICANT: OCHIAI, KEIKO  
 ; APPLICANT: YOKOI, HARUHIKO  
 ; APPLICANT: TATEISHI, NACKO  
 ; APPLICANT: SENO, AKIHICO  
 ; APPLICANT: IKEDA, MASATO  
 ; APPLICANT: OZAKI, AKIO  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-125  
 ; CURRENT APPLICATION NUMBER: US/09/738,626  
 ; CURRENT FILING DATE: 2000-12-16  
 ; PRIOR APPLICATION NUMBER: JP 99/131484  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: JP 99/154162  
 ; PRIOR FILING DATE: 2000-04-07  
 ; PRIOR APPLICATION NUMBER: JP 99/280388  
 ; PRIOR FILING DATE: 2000-08-03  
 ; NUMBER OF SEQ ID NOS: 1059  
 ; SOFTWARE: Patent In Ver. 3.0  
 ; SEQ ID NO 3768  
 ; LENGTH: 370  
 ; TYPE: PRT  
 ; ORGANISM: Corynebacterium glutamicum  
 US-09-738-626-3168

Query Match 41.1%; Score 45; DB 10; Length 370;  
 Best Local Similarity 50.0%; Pred. No. 28;  
 Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GVVPVHAQDGDALTMRNV 14  
 | | | | | | | | | | | | | | | | | |  
 DB 213 GVTVHSDMSASVSTRV 230

RESULT 10  
 US-09-738-626-3177  
 ; Sequence 5177, Application US/09316626  
 ; Publication No. US2002013065A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: NAKAGAWA, SATOSHI  
 ; APPLICANT: MIZOGUCHI, HIROSHI  
 ; APPLICANT: ANDO, SEIKO  
 ; APPLICANT: HAYASHI, KEIKO  
 ; APPLICANT: OCHIAI, KEIKO  
 ; APPLICANT: YOKOI, HARUHIKO  
 ; APPLICANT: TATEISHI, NACKO  
 ; APPLICANT: SENO, AKIHICO  
 ; APPLICANT: IKEDA, MASATO  
 ; APPLICANT: OZAKI, AKIO  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-125  
 ; CURRENT APPLICATION NUMBER: US/09/738,626  
 ; CURRENT FILING DATE: 2000-12-18  
 ; PRIOR APPLICATION NUMBER: JP 99/137484  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: JP 99/154162  
 ; PRIOR FILING DATE: 2000-04-07

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; PRIOR APPLICATION NUMBER: JP 20/280398
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ. ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ. ID NO. 5177
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
; US-9738626-5177

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Query Match      43.3%; Score 45; DB 10; Length 470;
Best Local Similarity 50.0%; Pred. NO. 25;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

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Qy 1 GVVPVHAQDGDATMRNV 18  
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Db 213 GVVTVHSDNGSAMSTRV 213

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RESULT : 1
US-10-155-407A-13
; Sequence 13, Application US/10/35407A
; Publication No. US2003037267A1
; GENERAL INFORMATION:
; APPLICANT: Frenz, John
; Shire, Steven J.
; Silkowski, Mary B.
; TITLE OF INVENTION: PURIFIED FORMS OF ENASE
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080

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JS-0-155-43A-13

Query Match	42.1%	Score 44	OR 1%	Length 31
Best Local Similarity	52.1%	Prod. No. 23		
Matches	37	Conservative	0	Mismatches 2
				Indels

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1  RESULT 17
2  US 15 238 075-1270
3  / Sequence ID NO: Application ID: 15238075
4  / Publication NO: J28003348744
5  / GENERAL INFORMATION:
6  / APPLICANT: I.N.S.E.P.M.
7  / TITLE OF INVENTION: POLYMERIZATION OF NATURE B/D. A. and which are used
8  / TITLE OF INVENTION: B/D. A. and which are used
9  / FILE REFERENCE: BLANCHE
10 / CURRENT APPLICATION NUMBER: 15238075
11 / PRIOR FILING DATE: 2500 09 10
12 / PRIOR FILING DATE: 2500 09 10
13 / NUMBER OF SEQ ID NOS: 106
14 / SOFTWARE: Patent is valid in
15 / SEQ ID NO: 1270
16 / LENGTH: 106
17 / TYPE: PPT
18 / ORGANISM: Escherichia coli
19 / US 15 238 075-1270

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Query Match 42.3%; Score 44; CR 12; Length 169;  
Best Local Similarity 29.4%; P-adj. No. 16;  
Matches 5; Conservative 8; Mismatches 4; Indels

Cy	4	PVHAQDGAATMERVTD	20
		:   : : : : :	
3b	42	PLE...DGETVTLASE	48

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RESULT 13
US-59-825-012-3
Sequence 3, Application US-59-825-012
Patent No. US20-2012-0881
GENERAL INFORMATION:
APPLICANT: YOUNG, Robert
TITLE OF INVENTION: Compounds for Targeting
FILE REFERENCE: 43-91-356308
CURRENT APPLICATION NUMBER: US20-020-012
CURRENT FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: US 40-337-189
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: BR 0004-49-9
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 102
SOFTWARE: Patent version 3.1
SEQ ID NO 3
LENGTH: 260
TYPE: PRT
ORGANISM: Homo sapiens
US-59-825-012-3

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Query Match	42.38	Score 44	DB 10	Length 260
Best Local Similarity	58.38	Prod. No. 27		
Matches	7	Mismatches	2	Indels

Qy 2 WPFVHAQGDAL 13  
: : : : :  
Dp 130 IVPLHAAFGDAV 141

RESULT 14

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US-10-133-065-4
; Sequence 4, Application US/10133065
; Publication No. US20020123122A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; Baron, Will F.
; TITLE OF INVENTION: HUMAN DNASE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/133,065
; FILING DATE: 26-Apr-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/643,520
; FILING DATE: 22/08/2000
; APPLICATION NUMBER: 08/794827
; FILING DATE: 04-Feb-1997
; APPLICATION NUMBER: 60/109796
; FILING DATE: 05-Feb-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Evans, David W
; REGISTRATION NUMBER: *See attached Limited Recognition under 37
; REFERENCE/DOCKET NUMBER: C.F.R.10.91(b);
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-1739
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 260 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-133-065-4
Query Match 42.3% Score 44: DB 14: Length 260;
Best Local Similarity 58.3%; Pred. No. 27; Gaps 0;
Matches 7: Conservative 3: Mismatches 2: Indels 0: Gaps 0;
QY 2 VVPVHAQGDAI 13
DB 133 TVPLHAPGDVA 141
RESULT 15
US-10-C74-SG9-4
; Sequence 4, Application US/10074509
; Publication No. US20020142437A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; Baron, Will F.
; TITLE OF INVENTION: HUMAN DNASE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 : Search time 11.4 Seconds  
Without alignments:  
74,230 Million cell updates/sec

Title: US-09-202-464-17

Perfect score: 104

Sequence: 1 GVVPVHAGCGDAITMRNVTD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: /cgn2\_6/ptodata/2/aa/5A\_COMB.pep:  
4: /cgn2\_6/ptodata/2/aa/5B\_COMB.pep:  
5: /cgn2\_6/ptodata/2/aa/PTC-US\_COMB.pep:  
6: /cgn2\_6/ptodata/2/aa/backfiles.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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5	70	67.3	370	3	US-08-467-023-97
6	44.5	42.8	337	4	US-09-328-352-53.5
7	44	42.3	28	2	US-08-765-815.7
8	44	42.3	28	3	US-08-959-718A.7
9	44	42.3	31	1	US-07-895-300A-1.3
10	44	42.3	31	1	US-08-458-367.13
11	44	42.3	31	4	US-09-618-112-13
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13	44	42.3	207	2	US-08-181-881-6
14	44	42.3	207	3	US-09-281-221-6
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17	44	42.3	260	4	US-08-663-831-1
18	44	42.3	260	4	US-08-663-831-2
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20	44	42.3	260	4	US-08-663-831-4
21	44	42.3	260	4	US-08-663-831-5
22	44	42.3	260	4	US-08-663-831-6
23	44	42.3	260	4	US-08-663-831-7
24	44	42.3	260	4	US-08-663-831-8
25	44	42.3	260	4	US-08-663-831-9
26	44	42.3	260	4	US-08-663-831-10
27	44	42.3	260	4	US-08-663-831-11

28	44	42.3	260	1	US-08-663-831-12
29	44	42.3	260	1	US-08-663-831-13
30	44	42.3	260	1	US-08-663-831-14
31	44	42.3	260	4	US-08-663-831-15
32	44	42.3	260	4	US-08-663-831-16
33	44	42.3	260	4	US-08-663-831-17
34	44	42.3	260	4	US-08-663-831-18
35	44	42.3	260	1	US-08-663-831-19
36	44	42.3	260	4	US-08-663-831-20
37	44	42.3	260	1	US-08-663-831-21
38	44	42.3	260	3	US-08-663-831-22
39	44	42.3	260	1	US-08-663-831-23
40	44	42.3	260	1	US-08-663-831-24
41	44	42.3	260	1	US-08-663-831-25
42	44	42.3	260	1	US-08-663-831-26
43	44	42.3	260	1	US-08-663-831-27
44	44	42.3	260	1	US-08-663-831-28
45	44	42.3	260	1	US-08-663-831-29

ALIGNMENTS

RESULT 1  
US-08-467-023-95  
Sequence 95, Application US08467023

Patent No. 6290184

GENERAL INFORMATION:

APPLICANT: Griffiths, Edwin J.

APPLICANT: Pollock, James

APPLICANT: Bond, Julian P.

APPLICANT: Gattagui, Richard D.

APPLICANT: Kim, Michael

APPLICANT: Yeung, Siu Mei H.

APPLICANT: Brauer, Andrew

APPLICANT: Exley, Mark A.

APPLICANT: Powers, Steven E.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Patent No. 2002-100000

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Allergenic Pharmaceutical Corporation, Inc.

STREET: 410 Lincoln St.

CITY: Walpole

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Flippy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC DOS/MS-DOS

SOFTWARE: Patent Release #1.2, Version #1.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US08/467,023

FILING DATE: June 4, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,127

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025,6 US2 (IM1 528CD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 95:

SEQUENCE CHARACTERISTICS:

LENGTH: 367 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: Protein

US-08-467-023-95

Query Match 84.6%; Score 89; DR 3; Length 167;  
 Best Local Similarity 85.6%; Pred. No. 3, 5e-07;  
 Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GVVPVHAQDGAITMRNVT 20  
 |||||  
 Db 162 GVPEVHAQDGAITMRHTN 181

RESULT 2  
 US-08-467-023-40  
 ; Sequence 40, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffiths, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D.;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; TITLE OF INVENTION: Japanese Cedar Pollen  
 ; NUMBER OF SEQUENCES: 26;  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/467,023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350,225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 JSD2 (IM: 078702)  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 40:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal  
 ; US-08-467-023-40

Query Match 70.2%; Score 71; DR 3; Length 20;  
 Best Local Similarity 65.0%; Pred. No. 1, 9e-06;  
 Matches 13; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 GVVPVHAQDGAITMRNVT 20  
 |||||  
 Db 1 GVPEVHAQDGAITMRHTN 20

RESULT 3  
 US-08-467-023-43

; Sequence 63, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffiths, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D.;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; TITLE OF INVENTION: Japanese Cedar Pollen  
 ; NUMBER OF SEQUENCES: 26;  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/08467,023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350,225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 JSD2 (IM: 078702)  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 63:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal  
 ; US-08-467-023-63

Query Match 60.2%; Score 71; DR 3; Length 63;  
 Best Local Similarity 45.0%; Pred. No. 1, 2e-06;  
 Matches 13; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 GVPEVHAQDGAITMRHTN 20  
 |||||  
 Db 1 GVPEVHAQDGAITMRHTN 20

RESULT 4  
 US-08-467-023-3  
 ; Sequence 2, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffiths, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D.;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.



STATE: New York  
COUNTRY: USA  
ZIP: 11753  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/765,815  
FILING DATE: 17-JAN-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/07188  
FILING DATE: 17-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Tran, Jessica H.  
REGISTRATION NUMBER: 40,846  
REFERENCE/DOCKET NUMBER: 454-6 CIP/PCT/USA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (516) 822-3550  
TELEFAX: (516) 822-3582  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
US-08-765-815-7

Query Match: 42.33; Score 44; DB 2; Length 22;  
Best Local Similarity 53.83; Pred. No. 0.56;  
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 5 VHACGGDAITMRN 17  
DB 10 LHHGEGGHTLRN 22

RESULT 8  
US-08-859-738A-7  
Sequence 7, Application US/08859738A  
Patent No. 6023181  
GENERAL INFORMATION:  
APPLICANT: Bini, Alessandra  
TITLE OF INVENTION: INHIBITION OF THROMBUS FORMATION BY MEDICAL RELATED APPARAT  
TITLE OF INVENTION: MATRIX METALLOPROTEINASE  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HOFFMANN & BARON, LLP  
STREET: 350 Jericho Turnpike  
CITY: Jericho  
STATE: New York  
COUNTRY: USA  
ZIP: 11753  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,738A  
FILING DATE: 17-May-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/446,887  
FILING DATE: 17-MAY-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Ronald J. Baron  
REGISTRATION NUMBER: 29,281  
REFERENCE/DOCKET NUMBER: 454-6 CIP 11

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (516) 822-3550  
TELEFAX: (516) 822-3582  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
US-08-859-738A-7

Query Match: 42.33; Score 44; DB 1; Length 28;  
Best Local Similarity 53.83; Pred. No. 0.56;  
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 5 VHACGGDAITMRN 17  
DB 10 LHHGEGGHTLRN 22

RESULT 9  
US-07-895-300A-13  
Sequence 13, Application US/07095300A  
Patent No. 5279823  
GENERAL INFORMATION:  
APPLICANT: Fredz, John  
APPLICANT: Smith, Steven J.  
APPLICANT: Szymanski, Mary R.  
TITLE OF INVENTION: IMPROVED BLOCKS OF BRASS  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Geomatrix, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 140 KB floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/895,300A  
FILING DATE: 1992-06-08  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hershey, Max D.  
REGISTRATION NUMBER: 27,243  
REFERENCE/DOCKET NUMBER: 747  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/928-1924  
TELEFAX: 415/928-6541  
TELEX: 910711-116P  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 31 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
US 07-895-300A 13

Query Match: 42.33; Score 44; DB 1; Length 31;  
Best Local Similarity 53.83; Pred. No. 0.64;  
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 2 VVPVHACGGDAI 13  
DB 4 IVELHAAPGDV 15

```

RESULT 10
US-08-458-367-13
; Sequence 13, Application US/08458367
; Patent No. 5783433
; GENERAL INFORMATION:
; APPLICANT: Frenz, John
; APPLICANT: Shire, Steven J.
; APPLICANT: Slikowski, Mary B.
; TITLE OF INVENTION: PURIFIED FORMS OF DNase
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/458,367
; FILING DATE: 02-Jun-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/409631
; FILING DATE: 22-Mar-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/348284
; FILING DATE: 30-Jun-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/116186
; FILING DATE: 02-Sep-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/895300
; FILING DATE: 08-Jun-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnston, Sean A.
; REGISTRATION NUMBER: 35,910
; REFERENCE/DOCKET NUMBER: PC747C4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3562
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 31 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
US-08-458-367-13
Query Match 42.3%; Score 44; EB 1; Length 31;
Best Local Similarity 58.3%; Pred. No. 0.64;
Matches 7; Conservative 3; Mismatches 0; Gaps 0;

QY 2 VVPVHAQGDGAI 13
Db 4 IVPLHAAPGDV 15

RESULT 11
US-09-638-112-13
; Sequence 13, Application US/0963812
; Patent No. 6440412
; GENERAL INFORMATION:
; APPLICANT: Frenz, John
; APPLICANT: Shire, Steven J.
; APPLICANT: Slikowski, Mary B.
; TITLE OF INVENTION: PURIFIED FORMS OF DNase

```

```

; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/638,112
; FILING DATE: 09-Aug-2000
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/042561
; FILING DATE: 01-Oct-1999
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnston, Sean A.
; REGISTRATION NUMBER: 35,910
; REFERENCE/DOCKET NUMBER: PC747C4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3562
; TELEFAX: 415/952-9881
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 31 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
US-09-638-112-13
Query Match 42.3%; Score 44; EB 4; Length 31;
Best Local Similarity 58.3%; Pred. No. 0.64;
Matches 7; Conservative 3; Mismatches 2; Gaps 0;

QY 2 VVPVHAQGDGAI 13
Db 4 IVPLHAAPGDV 15

RESULT 12
PC-US93-05136-13
; Sequence 13, Application PC/TN9305136
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; TITLE OF INVENTION: PURIFIED FORMS OF DNase
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PC/US93/05136
; FILING DATE: 19930528
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnston, Sean A.
; REGISTRATION NUMBER: 35,910
; REFERENCE/DOCKET NUMBER: 747C4

```

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415/225-3562  
 TELEFAX: 415/952-9881  
 TELEX: 910/371-7168  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 31 amino acids  
 TYPE: AMINO ACID  
 TOPOLOGY: linear  
 PCT-US93-05136-13

Query Match 42.38; Score 44; DB 5; Length 207;  
 Best Local Similarity 36.88; Pred. No. 63; Indels 0; Caps 0;  
 Matches 7; Conservative 5; Mismatches 7; Indels 0; Caps 0;

Cy 2 VVPVHAQGDGAI 13  
 Db 4 IVPLHAAPGDGV 15

RESULT 13  
 US-09-381-881-6  
 Sequence 6, Application US/0838-881  
 Patent No. 5939064  
 GENERAL INFORMATION:  
 APPLICANT: SAEVLEKOL, PAUL H.M.  
 APPLICANT: GAASSTRA, WILLEM  
 TITLE OF INVENTION: BORDATELLA BRONCHISEPTICA VACCINE  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: STEVENS, DAVIS, MILLER & MOSHER  
 STREET: 515 NORTH WASHINGTON STREET  
 CITY: ALEXANDRIA  
 STATE: VIRGINIA  
 COUNTRY: USA  
 ZIP: 22314

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.05  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/381,881  
 FILING DATE:  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FOULCS III, JAMES A.  
 REGISTRATION NUMBER: 31,714  
 REFERENCE/DOCKET NUMBER: TTP 29686  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703 549-7200  
 TELEFAX: 703 528-5313  
 TELEX: 44-0704 "STEVENS"  
 INFORMATION FOR SEQ ID NO: 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 207 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-381-881-6

Query Match 42.38; Score 44; DB 2; Length 207;  
 Best Local Similarity 36.88; Pred. No. 63; Indels 0; Caps 0;  
 Matches 7; Conservative 5; Mismatches 7; Indels 0; Caps 0;

Cy 2 VVPVHAQGDGAI 13  
 Db 20 VLPAAHNDGTIVTGS:SD 38

RESULT 14  
 US-09-281-221-6  
 Sequence 6, Application US/09281221

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415/225-3562  
 TELEFAX: 415/952-9881  
 TELEX: 910/371-7168  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 31 amino acids  
 TYPE: AMINO ACID  
 TOPOLOGY: linear  
 PCT-US93-05136-13  
 Query Match 42.38; Score 44; DB 5; Length 207;  
 Best Local Similarity 36.88; Pred. No. 63; Indels 0; Caps 0;  
 Matches 7; Conservative 5; Mismatches 7; Indels 0; Caps 0;

Cy 2 VVPVHAQGDGAI 13  
 Db 4 IVPLHAAPGDGV 15

RESULT 13  
 US-09-381-881-6  
 Sequence 6, Application US/0838-881  
 Patent No. 5939064  
 GENERAL INFORMATION:  
 APPLICANT: SAEVLEKOL, PAUL H.M.  
 APPLICANT: GAASSTRA, WILLEM  
 TITLE OF INVENTION: BORDATELLA BRONCHISEPTICA VACCINE  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: STEVENS, DAVIS, MILLER & MOSHER  
 STREET: 515 NORTH WASHINGTON STREET  
 CITY: ALEXANDRIA  
 STATE: VIRGINIA  
 COUNTRY: USA  
 ZIP: 22314

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.05  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/381,881  
 FILING DATE: UNKNOWN  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FOULCS III, JAMES A.  
 REGISTRATION NUMBER: 31,714  
 REFERENCE/DOCKET NUMBER: TTP 29686  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703 549-7200  
 TELEFAX: 703 528-5313  
 TELEX: 44-0704 "STEVENS"  
 INFORMATION FOR SEQ ID NO: 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 207 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-381-881-6

Query Match 42.38; Score 44; DB 3; Length 207;  
 Best Local Similarity 36.88; Pred. No. 63; Indels 0; Caps 0;  
 Matches 7; Conservative 5; Mismatches 7; Indels 0; Caps 0;

Cy 2 VVPVHAQGDGAI 13  
 Db 20 VLPAAHNDGTIVTGS:SD 38

RESULT 15  
 US-09-570-214B-7  
 Sequence 7, Application US/09570214B  
 Patent No. 6475794  
 GENERAL INFORMATION:  
 APPLICANT: Re-Is, David A.  
 APPLICANT: Kania, Stephen A.  
 APPLICANT: MOORE, Robert N.  
 TITLE OF INVENTION: BORDATELLA BRONCHISEPTICA GENE AND PROTEIN  
 FILE REFERENCE: UTR-100XCI  
 CURRENT APPLICATION NUMBER: US/09/570,214B  
 PRIOR FILING DATE: 2000-05-12  
 PRIOR APPLICATION NUMBER: 60/134,161  
 PRIOR FILING DATE: 1999-04-14  
 NUMBER OF SEQ ID NOS: 21  
 SOFTWARE: Patent In version 3.1  
 SEQ ID NO: 7  
 LENGTH: 207  
 TYPE: PRT  
 ORGANISM: Bordetella bronchiseptica  
 US-09-570-214B-7

Query Match 42.3%; Score 44; DB 4; Length 207;  
Best Local Similarity 36.8%; Pred. No. 6.3;  
Matches 7; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 2 VVPVHAQGDGDAITMRNVTD 20  
   ||| | | | | | | | | | | | | | | | |  
Db 20 VLPFAHNDGTVITGS:SD 18

Search completed: October 23, 2003, 09:55:28 -  
Job time : 12.4 secs

GenCore version 5.1.6  
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# OM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 seconds  
(without alignments)  
169,580\*Million cell updates/sec

Title: US-09-202-464-18

Perfect score: 107

Sequence: 1 DAITMRNVTVDWICHNSLSD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:  
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9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
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14: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	107	100.0	375	11	US-09-847-208-58
2	98	91.6	346	11	US-09-847-208-67
3	98	91.6	367	11	US-09-847-208-109
4	77	72.0	374	11	US-09-847-208-68
5	62	57.9	15	12	US-10-354-240-45
6	58	54.2	15	12	US-10-354-240-46
7	55	51.4	396	11	US-09-847-208-13
8	55	51.4	397	11	US-09-847-208-17
9	54	50.5	398	11	US-09-847-208-14
10	53	49.5	443	15	US-10-156-761-13902
11	52	48.6	399	12	US-10-403-192-17
12	52	48.6	420	12	US-10-326-185-87
13	51	47.7	392	11	US-09-847-208-16
14	50	46.7	348	14	US-10-072-152-8
15	50	46.7	397	11	US-09-847-208-15

16	46	44.9	352	12	US-10-403-192-18
17	47	43.9	13	12	US-10-354-240-47
18	46.5	43.5	135	10	US-09-847-208-61
19	46.5	43.5	135	14	US-10-072-152-10
20	45	42.1	101	12	US-10-029-386-31359
21	45	42.1	206	15	US-10-156-761-11611
22	45	42.1	253	16	US-10-225-567A-520
23	44.5	41.6	1054	10	US-09-847-208-5852
24	43.5	40.7	95	9	US-09-847-208-5852
25	43.5	40.7	102	12	US-10-403-192-2
26	43.5	40.7	102	12	US-10-403-192-7
27	43.5	40.7	102	12	US-10-403-192-8
28	43.5	40.7	341	14	US-10-072-152-4
29	43.5	40.7	493	14	US-10-072-152-12
30	43	40.2	359	14	US-10-072-152-2
31	43	40.2	349	9	US-10-816-028A-34
32	43	40.2	343	12	US-10-303-161-34
33	43	40.2	343	12	US-10-303-161-34
34	42	40.2	343	12	US-10-303-128-34
35	43	40.2	343	12	US-10-303-114-34
36	43	40.2	343	12	US-10-303-114-34
37	43	40.2	343	12	US-10-303-114-34
38	43	40.2	343	12	US-10-303-114-34
39	43	40.2	343	12	US-10-303-114-34
40	42	39.3	340	11	US-09-847-208-15
41	42	39.3	340	15	US-10-128-714-8394
42	42	39.3	340	15	US-10-128-714-8394
43	42	39.3	340	15	US-10-128-714-8394
44	42	39.3	340	15	US-10-128-714-8394
45	42	39.3	340	15	US-10-128-714-8394

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
; Sequence 58, Application US/09847208  
; Publication No. US20030082160A  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Xie  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; FILE OF INVENTION: 198 MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: US67,002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)  
US-09-847-208-58

Query Match 100.0% Score 107, DP 11 Length 375  
Best Local Similarity 100.0% Pct. 100.0%  
Matches 100 Conservative 0 Mismatches 0 Indels 0

QY 1 DAITMRNVTVDWICHNSLSD 20  
DB 172 DAITMRNVTVDWICHNSLSD 19:

RESULT 2  
US-09-847-208-67  
; Sequence 67, Application US/09847208  
; Publication No. US20030082160A  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Xie  
; APPLICANT: Zhu, Daocheng



; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 346  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 US-09-847-208-67

Query Match 91.6%; Score 98; DB 11; Length 346;  
 Best Local Similarity 90.0%; Pred. No. 1,76-57;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DAITMRNVTDVWIDHNSLSD 20  
 ||||| ||||| ||||| |||||

DB 151 DAITMRNVTDVWIDHNSLSD 170

RESULT 3  
 US-09-847-208-109  
 ; Sequence 169, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 167  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Ozark white cedar)  
 US-09-847-208-109

Query Match 91.6%; Score 98; DB 11; Length 367;  
 Best Local Similarity 90.0%; Pred. No. 1,76-57;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DAITMRNVTDVWIDHNSLSD 20  
 ||||| ||||| ||||| |||||

DB 172 DAITMRNVTDVWIDHNSLSD 19:

RESULT 4  
 US-09-847-208-68  
 ; Sequence 68, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 374  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica (Japanese cedar)  
 US-09-847-208-68

Query Match 72.0%; Score 62; DB 11; Length 374;  
 Best Local Similarity 60.0%; Pred. No. 0,100-36;  
 Matches 12; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 DAITMRNVTDVWIDHNSLSD 20  
 ||||| ||||| ||||| |||||

DB 172 DAITMRNVTDVWIDHNSLSD 13:

RESULT 5  
 US-10-354-240-45  
 ; Sequence 45, Application US/10354240  
 ; Publication No. US2003014547A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshiro  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Gaijiri, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kuno, Kouzou  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis-  
 ; FILE REFERENCE: SEQ ID NOS: 1-11  
 ; CURRENT APPLICATION NUMBER: US/10354240  
 ; CURRENT FILING DATE: 2003-01-21  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-01-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-03-29  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 45  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 11-1151  
 ; OTHER INFORMATION: Cyt1 peptide, Figure 1, Row 31  
 US-10-354-240-45

Query Match 57.9%; Score 62; DB 12; Length 381;  
 Best Local Similarity 52.0%; Pred. No. 0,100-24;  
 Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 DAITMRNVTDVWIDHNSLSD 11  
 ||||| ||||| |||||

DB 1 DAITMRNVTDVWIDHNSLSD 1:

RESULT 6  
 US-10-354-240-46  
 ; Sequence 46, Application US/10354240  
 ; Publication No. US2003014547A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshiro  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Gaijiri, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kuno, Kouzou  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis-  
 ; FILE REFERENCE: SEQ ID NOS: 1-11  
 ; CURRENT APPLICATION NUMBER: US/10354240  
 ; CURRENT FILING DATE: 2003-01-21  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-01-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-03-29  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 46  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 11-1151

NAME/KEY: MISC FEATURE  
 LOCATION: (11, 115)  
 OTHER INFORMATION: Cyt1 peptide, Figure 1, Row 2  
 US-10-354-240-46

Query Match 54.2%, Score 58, DB 12, Length 167  
 Best Local Similarity 60.0%, Pred. No. 1.1,  
 Matches 9, Conservative 3, Mismatches 5, Indels 0, Gaps 0

QY 6 RNVTNRVTDVWIDHNSLS 20  
 DB 1 RTATNWDHNSFSN 15

RESULT 7  
 US-09-847-208-13  
 ; Sequence 13, Application US/09847208  
 ; Publication No. US20030082190A;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; FILE REFERENCE: J067.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 13  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-13

Query Match 51.4%, Score 55, DB 11, Length 167  
 Best Local Similarity 52.6%, Pred. No. 1.1,  
 Matches 10, Conservative 4, Mismatches 5, Indels 0, Gaps 0

QY 1 DAITMRNVTDVWIDHNSLS 19  
 DB 195 DAIISGSSQIWDHCTLS 213

RESULT 8  
 US-09-847-208-17  
 ; Sequence 17, Application US/09847208  
 ; Publication No. US20030082190A;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; FILE REFERENCE: J067.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 17  
 ; LENGTH: 397  
 ; TYPE: PRT  
 ; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-17

Query Match 51.4%, Score 55, DB 11, Length 167  
 Best Local Similarity 52.6%, Pred. No. 1.1,  
 Matches 10, Conservative 4, Mismatches 5, Indels 0, Gaps 0

QY 1 DAITMRNVTDVWIDHNSLS 19  
 DB 196 DAIHVTGSSDIWDHCTLS 214

RESULT 9  
 US-09-847-208-14  
 ; Sequence 14, Application US/09847208  
 ; Publication No. US20030082190A;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; FILE REFERENCE: J067.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 14  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-14

Query Match 50.8%, Score 54, DB 11, Length 166  
 Best Local Similarity 52.6%, Pred. No. 1.1,  
 Matches 12, Conservative 3, Mismatches 6, Indels 0, Gaps 0

QY 1 DAITMRNVTDVWIDHNSLS 19  
 DB 197 DAIHWGSSQIWDHCTLS 215

RESULT 10  
 US-10-156-761-13902  
 ; Sequence 13902, Application US/010156761  
 ; Publication No. US20030119019A;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: OMURA, SATOSHI  
 ; APPLICANT: ISEDA, HARUO  
 ; APPLICANT: ISHIKAWA, JUN  
 ; APPLICANT: HOSIKAWA, HIROSHI  
 ; APPLICANT: SHIBA, TADAYOSHI  
 ; APPLICANT: SAKAKI, YOSHIYUKI  
 ; APPLICANT: HATTOSI, YASAHARA  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-262  
 ; CURRENT APPLICATION NUMBER: US/10/156,761  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-284089  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIOR APPLICATION NUMBER: JP 2001-272697  
 ; PRIOR FILING DATE: 2001-02-02  
 ; NUMBER OF SEQ ID NOS: 15109  
 ; SEQ ID NO 13902  
 ; LENGTH: 443  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermectinis  
 US-10-156-761-13902

Query Match 45.6%, Score 53, DB 15, Length 443  
 Best Local Similarity 45.6%, Pred. No. 2.0,  
 Matches 2, Conservative 0, Mismatches 7, Indels 0, Gaps 0

QY 1 DAITMRNVTDVWIDHNSLS 20  
 DB 223 DSAVVGATHWIDHCTFS 242

RESULT 11  
 US-10-403-192-17  
 ; Sequence 17, Application US/10403192  
 ; Publication No. US20030175942A;  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Schroder, Glad, Sanna G.

```

RESULT 13
US-09-847-208-16
: Sequence : 6, Application US/09847208
: Publication No. US20030082190A1
: GENERAL INFORMATION:
: APPLICANT: Saxon, Andrew
: APPLICANT: Zhang, Ke
: APPLICANT: Zhu, Daocheng
: TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
: TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
: FILE REFERENCE: UC67.002A
: CURRENT APPLICATION NUMBER: US/09/847.208
: CURRENT FILING DATE: 2001-05-01

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RESULT : 5  
US-09-847-238-15  
; Sequence 15, Application US7994732A  
; Publication No. US2003092790A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke

```

; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 197
; TYPE: PR
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847 208-15

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Query Match 46.74; Score 50; DB 11; Length 197;
Best Local Similarity 47.44; Pred. No. 7;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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QY 1 DAITMRNVTDVWIDHNSLS 19
| | | | | | | | | | | | | | | | | |
Db 196 DT:NVAGSSQIWIHCS:S 214

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Search completed: October 23, 2003, 11:01:50
Job time : 19.75 secs

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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 : Search time 11.4 seconds  
(without alignment)  
74,210 Wallon cell updates/sec

Title: US-09-202-464-18  
Perfect score: 107  
Sequence: 1 DAITMRNVTDWIDHNSLSD 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310458 residues

Total number of hits satisfying chosen parameters: 336/17

Minimum DR seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_AA:  
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2: /cgn2\_6/ptodata/2/iaa/5B\_COXB.pep:  
3: /cgn2\_6/ptodata/2/iaa/6A\_COXB.pep:  
4: /cgn2\_6/ptodata/2/iaa/6B\_COXB.pep:  
5: /cgn2\_6/ptodata/2/iaa/6CTUS\_COXB.pep:  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	93	86.9	367	3	US-08-467-023-95 Sequence 95, Appl
2	77	72.0	20	3	US-08-467-023-41 Sequence 41, Appl
3	77	72.0	30	3	US-08-467-023-68 Sequence 68, Appl
4	77	72.0	30	3	US-08-467-023-75 Sequence 75, Appl
5	77	72.0	50	3	US-08-467-023-63 Sequence 63, Appl
6	77	72.0	374	3	US-08-467-023-2 Sequence 2, Appl
7	64	59.8	370	3	US-08-467-023-97 Sequence 97, Appl
8	58	54.2	20	3	US-08-467-023-223 Sequence 203, App
9	58	54.2	21	3	US-08-467-023-119 Sequence 119, App
10	58	54.2	21	3	US-08-467-023-298 Sequence 208, App
11	58	54.2	21	3	US-08-467-023-229 Sequence 209, App
12	58	54.2	22	3	US-08-467-023-76 Sequence 76, Appl
13	58	54.2	23	3	US-08-467-023-224 Sequence 204, App
14	58	54.2	23	3	US-08-467-023-206 Sequence 206, App
15	58	54.2	23	3	US-08-467-023-207 Sequence 207, App
16	58	54.2	24	3	US-08-467-023-77 Sequence 77, Appl
17	58	54.2	24	3	US-08-467-023-120 Sequence 120, App
18	58	54.2	25	3	US-08-467-023-205 Sequence 205, App
19	58	54.2	26	3	US-08-467-023-202 Sequence 202, App
20	55	51.4	18	3	US-08-467-023-210 Sequence 210, App
21	55	51.4	387	1	US-08-290-448A-72 Sequence 72, Appl
22	55	51.4	387	1	US-08-290-448A-72 Sequence 72, Appl
23	55	51.4	387	1	US-08-175-069A-72 Sequence 72, Appl
24	55	51.4	387	1	US-08-464-000-72 Sequence 72, Appl
25	55	51.4	388	1	US-08-290-448A-80 Sequence 80, Appl
26	55	51.4	388	1	US-08-290-448A-80 Sequence 80, Appl
27	55	51.4	388	1	US-08-290-448A-80 Sequence 80, Appl

28	55	51.4	388	1	US-08-175-069A-80 Sequence 80, Appl
29	55	51.4	388	4	US-08-464-000-80 Sequence 80, Appl
30	55	51.4	388	4	US-08-464-000-80 Sequence 80, Appl
31	54	50.5	30	1	US-08-290-448A-59 Sequence 59, Appl
32	54	50.5	30	1	US-08-290-448A-59 Sequence 59, Appl
33	54	50.5	30	1	US-08-175-069A-59 Sequence 59, Appl
34	54	50.5	30	1	US-08-464-000-59 Sequence 59, Appl
35	54	50.5	30	1	US-08-464-000-59 Sequence 59, Appl
36	54	50.5	30	1	US-08-290-448A-74 Sequence 74, Appl
37	54	50.5	30	1	US-08-290-448A-74 Sequence 74, Appl
38	54	50.5	30	1	US-08-175-069A-74 Sequence 74, Appl
39	54	50.5	30	1	US-08-464-000-74 Sequence 74, Appl
40	53	49.5	16	3	US-08-467-023-212 Sequence 212, Appl
41	53	49.5	16	3	US-08-467-023-212 Sequence 212, Appl
42	53	49.5	16	3	US-08-467-023-211 Sequence 211, Appl
43	52	48.6	41	2	US-08-290-448A-5 Sequence 5, Appl
44	51	47.7	387	1	US-08-464-000-72 Sequence 72, Appl
45	51	47.7	387	1	US-08-290-448A-78 Sequence 78, Appl

ALIGNMENTS

RESULT 1  
US-08-467-023-95 : Sequence 95, Application US/0446003  
Patent No. 6090166  
GENERAL INFORMATION:  
APPLICANT: Griffiths, Edwin J.  
APPLICANT: Pollock, Jeanne  
APPLICANT: Bond, Julian P.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuo, Wei-Chang  
APPLICANT: Yeung, Siu-Hoi B.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Fowers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Walham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent In Release #1.0, Version #1.05  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08-467-023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 404  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/150,226  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Reillyard  
REGISTRATION NUMBER: 36,972  
REFERENCE/DOCKET NUMBER: 025,6 US2 (INT-029CFD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-467-023-95

Query Match 86.9%; Score 93; DB 3; Length 167;  
 Best Local Similarity 85.0%; Pred. No. 5,8e-07;  
 Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DA1MRNVTDWIDHNSLSD 20  
 |||||:|||||  
 DB 172 DA1MRHVTNWIDHNSLSD 191

## RESULT 2

US-08-467-023-41

Sequence 41, Application US/08467C23  
 Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-wei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467.023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-02RCPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 41:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 20 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-41

Query Match 72.0%; Score 77; DB 3; Length 20;  
 Best Local Similarity 60.0%; Pred. No. 6.4e-06;  
 Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 DA1MRNVTDWIDHNSLSD 20

|||||:|||||

DB 1 DA1TURTATNIWIDHNSFN 20

## RESULT 3

US-08-467-023-08

Sequence 69, Application US/08467C23  
 Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-wei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467.023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/450,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-02RCPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 69:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 30 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-08

Query Match 72.0%; Score 77; DB 3; Length 30;  
 Best Local Similarity 60.0%; Pred. No. 1e-05;  
 Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 DA1MRNVTDWIDHNSLSD 20

|||||:|||||

DB 1 DA1TURTATNIWIDHNSFN 27

## RESULT 4

US-08-467-023-75

Sequence 75, Application US/08467C23  
 Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-wei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.

```

; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 JSD2 (IM-028CFD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-75

```

Query Match 72.0%, Score 77, DP 3, Length 30,

Best Local Similarity 60.0%, Pred. No. 1e-05;

Matches 12; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 DA1TRNVTDWIDHNSLSD 20

DB : DALTSTATNIWIDHNSPSN 20

RESULT 5

US-08-467-023-63

; Sequence 63, Application US/08467023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Gullian F.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Wei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.;

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 JSD2 (IM-028CFD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-63

```

Query Match 72.0%, Score 77, DP 3, Length 50,

Best Local Similarity 60.0%, Pred. No. 1e-05;

Matches 12; Conservative 5; Mismatches 3; Indels 0;

QY 1 DA1TRNVTDWIDHNSLSD 20

DB : DALTSTATNIWIDHNSPSN 50

RESULT 6

US-08-467-023-7

; Sequence 2, Application US/08467023

; Patent No. 6090266

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Gullian F.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Wei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.;

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Remillard

```

; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USC2 (1X: 028*P02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-5941
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-2

Query Match 72.0%; Score 77; DB 1; Length 374;
Best Local Similarity 60.0%; Pred. No. 0.002; 3; Indexes 0; Gaps 0;
Matches 12; Conservative 5; Mismatches 3;

QY 1 DAITMRNVTDW:DHNSLSD 20
| | | | | | | | | | | | | | | | | | | | | |
DB 172 DAITMRNVTDW:DHNSLSD 19;

RESULT 7
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent'n Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION/DOCKET NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USC2 (1X: 028*P02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7430
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-97

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Query Match 54.2%; Score 58; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 0.0062;
Matches 6; Conservative 4; Mismatches 3; Indexes 0; Gaps 0;

QY 6 RNVTDW:DHNSLSD 20
| | | | | | | | | | | | | | | | | | | | | |
DB 2 RNVTDW:DHNSLSD 14;

RESULT 9
US-08-467-023-119
; Sequence 119, Application US/28467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent'n Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION/DOCKET NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USC2 (1X: 028*P02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7430
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 119:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
US-08-467-023-203

```



```

; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jace E. Remillard
; REGISTRATION NUMBER: 39,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (M1-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7430
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 119:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-467-023-119

Query Match 54.2%; Score 58; DB 3; Length 21;
Best Local Similarity 60.0%; Pred No. 0.0066;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 6 RNVTDWIDRNSLSD 20
Db 3 RTATNIWIDRNSFN 17

RESULT 10
US-08-467-023-208
; Sequence 208, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

```

? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI 028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 209:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 21 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-209

Query Match: 54.2%; Score 58; DB 3; Length 21;
Best Local Similarity 60.0%; Pred. No. 0.966;
Matches 9; Conservative 3; Mismatches 3; Gaps 0;

QY 6 RNVTDMWIDHNS-SD 20
DB 4 RTATN:WIDHNSFN 18

RESULT 12
US-08-467-023-76
? Sequence 76, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian P.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.;
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: PC-DOS/MS DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872

```

```

? REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI 028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 209:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 22 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-76

Query Match: 54.2%; Score 58; DB 3; Length 22;
Best Local Similarity 60.0%; Pred. No. 0.967;
Matches 9; Conservative 3; Mismatches 3; Gaps 0;

QY 6 RNVTDMWIDHNS-SD 21
DB 1 RTATN:WIDHNSFN 18

RESULT 13
US-08-467-023-204
? Sequence 204, Application US/08467004
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian P.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.;
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: PC-DOS/MS DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,024
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI 028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 204:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 23 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-204

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Query Match          54.2%; Score 58; DB 3; Length 23;
Best Local Similarity 60.0%; Pred. No. 0.0073;
Matches          9; Conservative          3; Mismatches          3; Indels          0; Gaps          0;

QY      6 RNVTDWIDHNSLSD 20
DB      4 RTATNIWIDHNSFSN 18

RESULT 14
US-08-467-023-206
; Sequence 206, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent'n Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,972
; REFERENCE/DOCKET NUMBER: 025.6 US02 (IM-028CF02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 206:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-206

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Query Match          54.2%; Score 58; DB 3; Length 23;
Best Local Similarity 60.0%; Pred. No. 0.0073;
Matches          9; Conservative          3; Mismatches          3; Indels          0; Gaps          0;

QY      6 RNVTDWIDHNSLSD 20
DB      4 RTATNIWIDHNSFSN 18

RESULT 15
US-08-467-023-207

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; Sequence 207, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent'n Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,972
; REFERENCE/DOCKET NUMBER: 025.6 US02 (IM-028CF02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 207:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US 08 467-023-207

Query Match          54.2%; Score 59; DB 3; Length 23;
Best Local Similarity 60.0%; Pred. No. 0.0073;
Matches          9; Conservative          3; Mismatches          3; Indels          0; Gaps          0;

QY      6 RNVTDWIDHNSLSD 20
DB      4 RTATNIWIDHNSFSN 18

Search completed: October 23, 2003, 09:56:28
Job time: 11.4 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 Seconds  
(without alignments:  
169.686 Million cell updates/sec)

Title: US-09-202-464-21

Perfect score: 108

Sequence: 1 ASTGVTSNNHFFNHHKVM 20

Scoring table:

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 67332

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

Published Applications AA:  
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2: /cgn2\_6/ptodata/1/pubpaa/PC7\_NEW\_PUB.pcp.  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pcp.  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pcp.  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pcp.  
6: /cgn2\_6/ptodata/1/pubpaa/PC7US\_PUBCOMB.pcp.  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pcp.  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pcp.  
9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pcp.  
10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pcp.  
11: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pcp.  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pcp.  
13: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pcp.  
14: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pcp.  
15: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pcp.  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pcp.  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pcp.  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pcp.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	100.0	375	11	US-09-847-208-58
2	103	95.4	346	11	US-09-847-208-67
3	103	95.4	367	11	US-09-847-208-109
4	94	87.0	374	11	US-09-847-208-68
5	74	68.5	15	12	US-10-354-243-52
6	68	63.0	15	12	US-10-354-243-51
7	57	52.8	397	11	US-09-847-209-17
8	52	48.1	15	12	US-10-354-240-53
9	52	48.1	572	10	US-09-943-075A-2
10	52	48.1	574	9	US-09-823-038A-36
11	52	48.1	574	10	US-09-943-075A-5
12	49	45.4	332	9	US-09-758-575-7
13	49	45.4	332	12	US-09-949-029-120
14	47	43.5	523	12	US-10-017-161-1982
15	45	41.7	15	12	US-10-354-240-50

16	45	41.7	100	9	US-09-847-208-138	Sequence 42, Appl
17	45	41.7	459	14	US-10-032-152-2	Sequence 42, Appl
18	45	41.7	243	14	US-09-738-622-587	Sequence 42, Appl
19	45	41.7	529	14	US-10-032-152-16	Sequence 42, Appl
20	45	41.7	563	14	US-09-235-005-225	Sequence 42, Appl
21	45	41.7	565	10	US-09-850-716A-225	Sequence 42, Appl
22	45	41.7	565	10	US-09-937-738-225	Sequence 42, Appl
23	45	41.7	560	10	US-09-943-075A-6	Sequence 42, Appl
24	45	41.7	560	12	US-10-117-982-225	Sequence 42, Appl
25	45	41.7	560	14	US-10-039-272-2	Sequence 42, Appl
26	45	41.7	572	12	US-10-216-163-42	Sequence 42, Appl
27	45	41.7	572	12	US-10-218-765-42	Sequence 42, Appl
28	45	41.7	572	12	US-10-219-063-42	Sequence 42, Appl
29	45	41.7	572	12	US-10-219-066-42	Sequence 42, Appl
30	45	41.7	572	12	US-10-219-067-42	Sequence 42, Appl
31	45	41.7	572	12	US-10-219-068-42	Sequence 42, Appl
32	45	41.7	572	12	US-10-219-069-42	Sequence 42, Appl
33	45	41.7	572	12	US-10-219-073-42	Sequence 42, Appl
34	45	41.7	572	12	US-10-219-075-42	Sequence 42, Appl
35	45	41.7	572	12	US-10-219-480-42	Sequence 42, Appl
36	45	41.7	572	12	US-10-219-483-42	Sequence 42, Appl
37	45	41.7	572	12	US-10-219-525-42	Sequence 42, Appl
38	45	41.7	572	12	US-10-219-526-42	Sequence 42, Appl
39	45	41.7	572	12	US-10-219-530-42	Sequence 42, Appl
40	45	41.7	572	12	US-10-219-531-42	Sequence 42, Appl
41	45	41.7	572	12	US-10-219-532-42	Sequence 42, Appl
42	45	41.7	572	12	US-10-219-533-42	Sequence 42, Appl
43	45	41.7	572	12	US-10-219-437-42	Sequence 42, Appl
44	45	41.7	572	12	US-10-219-438-42	Sequence 42, Appl
45	45	41.7	572	15	US-10-227-984-42	Sequence 42, Appl

#### ALIGNMENTS

RESULT:  
US-09-847-208-58  
; Sequence 58, Application US/00847208  
; Publication No. US030827190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: TCR-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: US67,002A  
; CURRENT APPLICATION NUMBER: US03/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FASTSEQ for Windows Version: 4.0  
; SEQ ID NO 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)  
US-09-847-208-58

Query Match 100.0%; Score 108; DB ID: 11; Length 375;  
Res. Local Similarity 100.0%; Pred. No. 1.5e-08;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY : ASTGVTSNNHFFNHHKVM 20

DB : 202 ASTGVTSNNHFFNHHKVM 22;

RESULT 2

US-09-847-208-67  
; Sequence 67, Application US/03847208  
; Publication No. US20040082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 346  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 US-09-847-208-67

Query Match 95.4%; Score 103; DB 11; Length 346;  
 Best Local Similarity 94.7%; Pred. No. 7.7e-08;

Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 STGVTISNNHFFNHHKVM 20  
 DB 182 STGVTISNNHFFNHHKVM 200

RESULT 3

US-09-847-208-109  
 ; Sequence 109, Application US/59847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daoceng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 367  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Ozark white cedar)  
 US-09-847-208-109

Query Match 95.4%; Score 103; DB 11; Length 367;  
 Best Local Similarity 94.7%; Pred. No. 8.2e-08;

Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 STGVTISNNHFFNHHKVM 20  
 DB 203 STGVTISNNHFFNHHKVM 221

RESULT 4

US-09-847-208-68  
 ; Sequence 68, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daoceng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 374  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica (Japanese cedar)  
 US-09-847-208-68

Query Match 47.0%; Score 64; DB 11; Length 346;  
 Best Local Similarity 46.3%; Pred. No. 2e-06;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASTGVTISNNHFFNHHKVM 20  
 DB 202 SSTGVTISNNHFFNHHKVM 201

RESULT 5

US-10-354-240-52  
 ; Sequence 52, Application US/10354240  
 ; Publication No. US2004185647A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Daikiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kudo, Yoshiko  
 ; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SEQ ID NO 1  
 ; CURRENT APPLICATION NUMBER: US/10-354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/07340  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 73,142,524  
 ; PRIOR FILING DATE: 1996-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 52  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE: VISO\_FEATURE  
 ; NAME/REV: 11111115  
 ; LOCATION: 11111115  
 ; OTHER INFORMATION: Cystal peptide, Figure 1, Row 3a  
 US-10-354-240-52

Query Match 68.8%; Score 14; DB 12; Length 15;  
 Best Local Similarity 67.8%; Pred. No. 7e-05;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TISNNHFFNHHKVM 20  
 DB 1 TISNNHFFNHHKVM 15

RESULT 6

US-10-354-240-51  
 ; Sequence 51, Application US/10354240  
 ; Publication No. US2004185647A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Daikiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kudo, Yoshiko  
 ; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SEQ ID NO 1  
 ; CURRENT APPLICATION NUMBER: US/10-354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/07340  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1996-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 51  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:

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; NAME/KEY: MISC FEATURE
; LOCATION: (11..15)
; OTHER INFORMATION: CRY1 peptide, Figure 1, Row 17
US-10-354-240-51

Query Match      63.0%  Score 68; DB 12; Length 15;
Best Local Similarity 86.7%  Pred. No. 0.00047;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASTGVTSNNHFFNH 15
Db 1 SSTGVTSNNHFFNH 15

RESULT 7
US-09-847-208-17
; Sequence 17, Application: US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: IGS-MEDIATED ALLERGIC DISEASES
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short: ragweed)
US-09-847-208-17

Query Match      52.8%  Score 57; DB 17; Length 197;
Best Local Similarity 63.2%  Pred. No. 0.89;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 STGVTSNNHFFNHKVM 20
Db 227 STGVTSNNCKFTHEKAVL 245

RESULT 8
US-10-354-240-53
; Sequence 53, Application: US/10354240
; Publication No. US20030185947A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akino
; APPLICANT: Gairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00140
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (11..15)
; OTHER INFORMATION: CRY1 peptide, Figure 1, Row 19
US-10-354-240-53

Query Match      49.1%  Score 52; DB 9; Length 594;
Best Local Similarity 50.0%  Pred. No. 7.6;
Matches 9; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 STGVTSNNHFFNHKVM 13
Db 288 MSLGVNFTINHTYVL 305

RESULT 10
US-09-823-018A-16
; Sequence 16, Application: US/00823018A
; Patent No. US2002008516A1
; GENERAL INFORMATION:
; APPLICANT: Sleasman, Leroy
; APPLICANT: Sleasman, William
; APPLICANT: Abernethy, Kevin
; APPLICANT: Christ, Rene
; APPLICANT: Kumble, Arund
; APPLICANT: Mathison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; FILE REFERENCE: 110011010103
; CURRENT APPLICATION NUMBER: US/09/823,018A
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 574
; TYPE: PRT
; ORGANISM: Mouse
US-09-823-018A-16

Query Match      49.1%  Score 52; DB 9; Length 594;
Best Local Similarity 50.0%  Pred. No. 7.6;
Matches 9; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 STGVTSNNHFFNHKVM 13
Db 288 MSLGVNFTINHTYVL 305
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```

Dc      288 NTGLFVSNHNTLNHTYVL 305
RESULT 11
US-09-943-075A-5
; Sequence 5, Application US/09943075A
; Patent No. US20020151486A1
; GENERAL INFORMATION:
; APPLICANT: Popoff, Steven N.
; APPLICANT: Safado, Payez F.
; APPLICANT: Owen, Thomas A.
; APPLICANT: Smock, Steven D.
; TITLE OF INVENTION: Osteoactive Protein and Nucleic Acids Encoding the Same,
; FILE REFERENCE: 71369.262
; CURRENT APPLICATION NUMBER: US/09/943-075A
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 62/229,006
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 574
; TYPE: PRT
; ORGANISM: Mouse
US-09-943-075A-5

Query Match      48.1% Score 57; DB 10; Length 574;
Best Local Similarity 50.0%; Pred. No. 7.6;
Matches      9; Conservative      4; Mismatches      5; Indels      0; Gaps      0;

Cy      2 STGVTSNNHFFHHKVM 19
      :||:|||||:|:|:|
Db      288 NTGLFVSNHNTLNHTYVL 305

RESULT 12
US-09-758-575-7
; Sequence 7, Application US/09758575
; Patent No. US20020004239A;
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Coerg
; APPLICANT: Harrowe, Greg
; APPLICANT: Reinhard, Christoph
; APPLICANT: Karg, Sammo
; TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN
; FILE REFERENCE: 200130-517/1656.002
; CURRENT APPLICATION NUMBER: US/09/758-575
; CURRENT FILING DATE: 2001-01-09
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-758-575-7

Query Match      45.4% Score 49; DB 9; Length 332;
Best Local Similarity 47.1%; Pred. No. 12;
Matches      8; Conservative      2; Mismatches      7; Indels      0; Gaps      0;

Cy      4 GVTISNNHFFHHKVM 20
      :||:|||||:|:|:|
Db      47 GRVVSNNHFFKHSRAF 63

RESULT 13
US-09-949-029-120
; Sequence 120, Application US/09949029
; Publication No. US20030134278A;
; GENERAL INFORMATION:
; APPLICANT: Karpen, G.H.

```

---

```

; APPLICANT: Doolie, K.W.
; APPLICANT: Kennedy, C.D.
; APPLICANT: Velasco, V.M.
; APPLICANT: McGrath, T.L.
; APPLICANT: Wako, J.
; APPLICANT: Patterson, B.W.
; TITLE OF INVENTION: Identification of genes whose inheritance modification is disrupted
; FILE REFERENCE: 1211-0115;
; CURRENT APPLICATION NUMBER: US/99/949-029
; CURRENT FILING DATE: 2001-06-02
; PRIOR APPLICATION NUMBER: US 60/774,105
; PRIOR FILING DATE: 2000-09-03
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-949-029-120

Query Match      45.4% Score 49; DB 12; Length 332;
Best Local Similarity 47.1%; Pred. No. 12;
Matches      8; Conservative      2; Mismatches      7; Indels      0; Gaps      0;

Cy      4 GTTISNNHFFHHKVM 20
      :||:|||||:|:|:|
Db      47 GRVVSNNHFFKHSRAF 63

RESULT 14
US-10-017-161-1942
; Sequence 1942, Application US/20010161
; Publication No. US20010161666A;
; GENERAL INFORMATION:
; APPLICANT: SIVA, MAKINO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ARIKANT, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 04315/7152
; CURRENT APPLICATION NUMBER: US/01/017-161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246049
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1962
; LENGTH: 523
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MCD PES
; LOCATION: 1253...1264
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MCD PES
; LOCATION: 1191...1194
; OTHER INFORMATION: Variable amino acid
US-10-017-161-1942

Query Match      43.6% Score 47; DB 12; Length 523;
Best Local Similarity 52.0%; Pred. No. 40;
Matches      7; Conservative      4; Mismatches      3; Indels      0; Gaps      0;

Cy      3 TGVTSNNHFFHHK 16
      :||:|||||
Db      211 TTTTNNHFFHHH 224

RESULT 15
US-10-154-240-50
; Sequence 50, Application US/010154240

```

```

; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptosporidia japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 36
US-10-354-240-50

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Query Match      41.7%   Score 45; DA 12; Length 15;
Best Local Similarity 90.0%; Pred. No. 1.8;
Matches      9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY      1 ASGVGTISNN 10
        :|||:|||||
Db      6 SSTGVGTISNN 15

```

```

Search completed: October 23, 2003, 11:01:52
Job time : 21.75 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2001 CompuGen Ltd.

OM protein - protein search, using sw mode:

Run on: October 23, 2003, 09:42:19 : Search time 11.4 Seconds  
without alignments:  
74,230 Million cell updates/sec

Title: US-09-202-464-21

Perfect score: 108

Sequence: 1 ASTGWTISNNHFFNHHKVMYL 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 4210858 residues

Total number of hits satisfying chosen parameters: 1,877

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2\_6/ptodata/2/aa/5A\_COMB pep.\*
- 2: /cgn2\_6/ptodata/2/aa/5B\_COMB pep.\*
- 3: /cgn2\_6/ptodata/2/aa/5A\_COMB pep.\*
- 4: /cgn2\_6/ptodata/2/aa/5B\_COMB pep.\*
- 5: /cgn2\_6/ptodata/2/aa/PTUS\_COMB pep.\*
- 6: /cgn2\_6/ptodata/2/aa/backfiles1.prp.\*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	101	95.4	367	3	US-08-467-023-95
2	93	86.1	20	3	US-08-467-023-44
3	93	86.1	374	3	US-08-467-023-2
4	84	77.8	370	3	US-08-467-023-97
5	80	74.1	42	2	US-08-773-038-5
6	57	52.8	388	1	US-08-290-448A-90
7	57	52.8	388	1	US-08-290-448A-80
8	57	52.8	388	1	US-08-175-069A-80
9	57	52.8	388	4	US-08-461-930B-80
10	57	52.8	388	4	US-08-461-020-80
11	52	48.1	20	3	US-08-467-023-45
12	52	48.1	50	3	US-08-467-023-69
13	52	48.1	90	3	US-08-467-023-64
14	52	48.1	574	3	US-08-383-586-34
15	45	41.7	221	4	US-09-328-352-4715
16	45	41.7	359	3	US-09-198-955A-2
17	45	41.7	359	3	US-09-395-655A-2
18	45	41.7	359	4	US-09-694-531-2
19	45	41.7	509	3	US-09-198-955A-6
20	45	41.7	509	4	US-09-694-531-6
21	45	41.7	560	1	US-08-594-031-90
22	45	41.7	560	4	US-09-643-597-225
23	45	41.7	560	4	US-09-480-884A-225
24	45	41.7	560	4	US-09-542-615A-225
25	45	41.7	560	4	US-09-606-421B-225
26	44	41.2	293	4	US-09-134-001C-5374
27	44	40.7	20	3	US-08-467-023-43

28	42	39.8	323	4	US-08-222-939A-32	Sequence 32, App1
29	42	38.9	324	3	US-08-300-117-1	Sequence 31, App1
30	42	38.9	324	3	US-08-189-060B-72	Sequence 31, App1
31	42	38.9	324	4	US-08-114-001C-5549	Sequence 31, App1
32	42	38.9	324	4	US-08-252-991A-23697	Sequence 31, App1
33	41	38.0	323	4	US-08-134-001C-4041	Sequence 4041, App1
34	41	38.0	323	4	US-08-128-352-0579	Sequence 4041, App1
35	40.5	37.5	323	4	US-08-189-637A-243	Sequence 24, App1
36	40	37.0	323	4	US-08-391-621-20	Sequence 21, App1
37	40	37.0	323	4	US-08-551-136C-10	Sequence 11, App1
38	40	37.0	323	4	US-08-229-911A-10	Sequence 11, App1
39	40	37.0	323	3	US-08-230-448A-72	Sequence 72, App1
40	40	37.0	323	3	US-08-175-069A-72	Sequence 72, App1
41	40	37.0	323	4	US-08-461-930B-72	Sequence 72, App1
42	40	37.0	323	4	US-08-464-000-72	Sequence 72, App1
43	40	37.0	323	4	US-08-230-448A-59	Sequence 59, App1
44	40	37.0	323	4	US-08-230-448A-59	Sequence 59, App1
45	40	37.0	323	4	US-08-230-448A-59	Sequence 59, App1

ALIGNMENTS

RESULT :  
US-08-467-023-95  
Sequence 95, Application US-0844-023-95  
Patent No. 6003886  
GENERAL INFORMATION:  
APPLICANT: Griffiths, Irwin D.  
APPLICANT: Pollock, Colman,  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kim, Mei Zhang,  
APPLICANT: Yehud, Andrew,  
APPLICANT: Stalder, Andrew,  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Priority Patent  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Imclone Pharmaceutical Corporation, Inc.  
STREET: 612 Lincoln St.  
CITY: Wallingford  
STATE: VT  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US-08/467-023  
FILING DATE: June 6, 1996  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/150,120A  
FILING DATE: December 7, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jape & Remillard  
REGISTRATION NUMBER: 38,912  
REFERENCE/DOCKET NUMBER: 026,4 US2 (IN: 088CFC2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5942  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-467-023-95

Query Match 95.4%; Score 153; DB 3; Length 167;  
 Best Local Similarity 94.7%; Pred. No. 1.1e-08;  
 Matches 18; Conservative 1; Mismatches 0; Gaps 0;

OY 2 STGVTISNNHFFNHHKVMK 20  
 DB 203 STGVTISNNHFFNHHKVMK 221

## RESULT 2

US-08-467-023-44

Sequence 44, Application US/08467023

Patent No. 6690386

## GENERAL INFORMATION

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Wei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261

## CORRESPONDENCE ADDRESS

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

## COMPUTER READABLE FORM

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.05

## CURRENT APPLICATION DATA

APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995

## CLASSIFICATION

424

## PRIORITY APPLICATION DATA

APPLICATION NUMBER: 08/450,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025 6 US02 (IM)-028CP02

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 44:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-44

Query Match 86.1%; Score 93; DB 3; Length 20;

Best Local Similarity 94.7%; Pred. No. 1.1e-08;

Matches 18; Conservative 0; Mismatches 1; Indels 0;

OY 2 STGVTISNNHFFNHHKVMK 20

DB 2 STGVTISNNHFFNHHKVMK 20

## RESULT 3

US-08-467-023-44

Sequence 2, Application US/08467023  
 Patent No. 6690386  
 GENERAL INFORMATION  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Wei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261

## CORRESPONDENCE ADDRESS

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

## COMPUTER READABLE FORM

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.05

## CURRENT APPLICATION DATA

APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995

## CLASSIFICATION

424

## PRIORITY APPLICATION DATA

APPLICATION NUMBER: 08/450,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025 6 US02 (IM)-028CP02

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 44:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-44

Query Match 86.1%; Score 93; DB 3; Length 20;

Best Local Similarity 94.7%; Pred. No. 1.1e-08;

Matches 18; Conservative 0; Mismatches 1; Indels 0;

OY 2 STGVTISNNHFFNHHKVMK 20

DB 203 STGVTISNNHFFNHHKVMK 221

## RESULT 4

US-08-467-023-44

Sequence 2, Application US/08467023

Patent No. 6690386

## GENERAL INFORMATION

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Kuo, Wei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From

```

: TITLE OF INVENTION: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-0287PD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7403
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 97:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 370 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-467-023-97

Query Match 77.8%; Score 84; DR 3; Length 370;
Best local Similarity 80.0%; Pred. No. 1.1e 05;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY : ASTGVTISNNHFFNHHKVL 20
    ||| ||| ||| ||| |||
DB 202 ASTAVTISNNHFFDHDDEVML 221

RESULT 5
US-08-773-008-5
: Sequence 5, Application US/08773038
: Patent No. 5874401
: GENERAL INFORMATION:
: APPLICANT: SANO, Osamu
: APPLICANT: HINO, Katsuhiko
: APPLICANT: KURIMOTO, Masashi
: TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME,
: TITLE OF INVENTION: AND USES THEREOF
: NUMBER OF SEQUENCES: 5
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: BROWDY AND NEWMARK
: STREET: 419 Seventh Street, N.W., Suite 300
: CITY: Washington
: STATE: D.C.
: COUNTRY: USA
: ZIP: 20004
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/773,008
: FILING DATE: 24-DEC-1996
: CLASSIFICATION: 530
: PRIOR APPLICATION DATA:

```

```

: APPLICATION NUMBER: US 08/454,815
: FILING DATE: 08 DEC 1994
: APPLICATION NUMBER: JP 142817
: FILING DATE: 27 DEC 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: YUN, Allen C.
: REGISTRATION NUMBER: 37,371
: REFERENCE/DOCKET NUMBER: SAV941
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-239-3529
: TELEFAX: 202-239-3529
: TELEFAX: 248633
: INFORMATION FOR SEQ ID NO: 98:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 41 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-773-008-5

Query Match 71.1%; Score 80; DR 2; Length 41;
Best local Similarity 71.8%; Pred. No. 4.1e 04;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 STAVTISNNHFFNHHK 20
    ||| ||| ||| ||| |||
DB 26 STAVTISNNHFFNHHK 41

RESULT 6
US-08-230-448A 80
: Sequence 80, Application US/08230448A
: Patent No. 5676554
: GENERAL INFORMATION:
: APPLICANT: Rogers, Bruce
: APPLICANT: Klapper, David G.
: APPLICANT: Rafnar, Thorunn
: APPLICANT: Kuo, Mei Chang
: TITLE OF INVENTION: Allergenic Proteins From Ragweed and Pans
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: LAUIVE & CROCKFELD
: STREET: 60 State Street, Suite 500
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109-1875
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/290,448A
: FILING DATE: August 15, 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: May 23, 1990
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: March 17, 1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragoras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IMI-010CM
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 80:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 388 amino acids
: TYPE: amino acid
: TOPOLOGY: linear

```

MOLECULE TYPE: protein  
US-08-290-448A-80

Query Match 52.8%; Score 57; DB 1; Length 388;  
Best Local Similarity 63.2%; Pred. No. 0.23;  
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 STGVTSNNHFFNHHKAVL 20  
|||||  
Db 218 STGVTSNCKFTTHERKAVL 236

## RESULT 7

US-08-290-448A-80  
Sequence 80, Application US/08290448A  
Patent No. 5698204  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergic Proteins From Banned and Toler  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHVE & COOKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1975  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290.448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,952  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragoras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IM: 0190N  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 80:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 388 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-290-448A-80

Query Match 52.9%; Score 57; DB 1; Length 388;  
Best Local Similarity 63.2%; Pred. No. 0.23;  
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 STGVTSNNHFFNHHKAVL 20  
|||||  
Db 218 STGVTSNCKFTTHERKAVL 236

## RESULT 8

US-08-175-069A-80  
Sequence 80, Application US/08175069A  
Patent No. 576761  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergic Proteins From Banned and Toler  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHVE & COOKFIELD, LLC  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1975  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290.448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,952  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragoras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IM: 0190N  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 80:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 388 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-175-069A-80

Query Match 52.9%; Score 57; DB 1; Length 388;  
Best Local Similarity 63.2%; Pred. No. 0.23;  
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

CY 2 STGVTSNNHFFNHHKAVL 20  
|||||  
Db 218 STGVTSNCKFTTHERKAVL 236

RESULT 9  
US-08-441-030P-60  
Sequence 87, Application US/08441030P  
Patent No. 575519  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Methods For Treating Sensitivity To A  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHVE & COOKFIELD, LLC  
STREET: 28 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1975  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25

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: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/461,939B
: FILING DATE:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/464,000
: FILING DATE: 05-JUN-1995
: APPLICATION NUMBER: US 08/290,448
: FILING DATE: 15-AUG-1994
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: 29-MAY-1990
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: 17-MAR-1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IMI-C18CNDV
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)742-4214
: INFORMATION FOR SEQ ID NO: 80:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 388 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-461-939B-80

Query Match 52.8% Score 57: DB 4: Length 388
Best Local Similarity 63.2% Pred. No. 0.23:
Matches 12: Conservative 2: Mismatches 5: Indels 2: Gaps 0:

CY 2 STGVTSNNHFFHHKVM L 20
| | | | | | | | | | | | | |
DB 2:8 STGVTSNCKFTHERKAV L 236

RESULT 10
US-08-464-000-80
: Sequence 80, Application US/08464000
: Patent No. 6335020
: GENERAL INFORMATION:
: APPLICANT: Rogers, Bruce
: APPLICANT: Klapper, David G.
: APPLICANT: Ratnar, Thorunn
: APPLICANT: Kuo, Mei-Chang
: TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: LAHIVE & COCKFIELD, LLP
: STREET: 60 State Street
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109-1875
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/464,000
: FILING DATE: 05-JUN-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/290,448
: FILING DATE: 15-AUG-1994
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: 29-MAY-1990
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: 17-MAR-1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IMI-C18CND

```

```

: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)227-7400
: INFORMATION FOR SEQ ID NO: 81:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 388 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-464-000-80

Query Match 52.8% Score 57: DB 4: Length 388
Best Local Similarity 63.2% Pred. No. 0.23:
Matches 12: Conservative 2: Mismatches 5: Indels 2: Gaps 0:

CY 2 STGVTSNNHFFHHKVM L 20
| | | | | | | | | | | | | |
DB 2:8 STGVTSNCKFTHERKAV L 236

RESULT 11
US-08-467-023-45
: Sequence 45, Application US/08467023
: Patent No. 6300344
: GENERAL INFORMATION:
: APPLICANT: Griffiths, Irwin J.
: APPLICANT: Pollock, James
: APPLICANT: Reed, William F.
: APPLICANT: Garman, Richard D.
: APPLICANT: Kuo, Wei-Chang
: APPLICANT: Young, Samuel H.
: APPLICANT: Brauer, Andrew
: APPLICANT: Exley, Mark A.
: APPLICANT: Powers, Steven F.
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: TITLE OF INVENTION: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Walpole
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (MI-028CE02)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 45:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 20 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-45

Query Match 48.1% Score 52: DB 3: Length 20:

```

Best Local Similarity 100.0%, Pred. No. 0, 0, 0  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FENHKVWL 20  
DB 2 FENHKVWL 10

## RESULT 12

US-08-467-023-69  
Sequence 69, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Joanne  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuc, Mei-Chang  
APPLICANT: Yeung, Siu-mei H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Phorbols And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.05  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 US2 (INT-0284P-2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 69:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 50 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-69

Query Match 48.1%, Score 52, DP 3; Length 60;

Best Local Similarity 100.0%, Pred. No. 0, 0, 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FENHKVWL 20  
DB 2 FENHKVWL 10

## RESULT 13

US-08-467-023-64  
Sequence 64, Application US/08467023  
Patent No. 6090386

GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Joanne  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuc, Mei-Chang  
APPLICANT: Yeung, Siu-mei H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Phorbols And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.05  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 US2 (INT-0284P-2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 50 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-64

Query Match 48.1%, Score 52, DP 3; Length 60;

Best Local Similarity 100.0%, Pred. No. 0, 0, 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FENHKVWL 20  
DB 2 FENHKVWL 10

## RESULT 14

US-09-383-586-36  
Sequence 36, Application US/09383586  
Patent No. 6242419

GENERAL INFORMATION:  
APPLICANT: Strachan, Lorna  
APPLICANT: Sleeman, Matthew  
APPLICANT: Abernethy, Kevin  
APPLICANT: Gustaf, Rene  
APPLICANT: Kumbie, Anand  
APPLICANT: Morrison, Greg

TITLE OF INVENTION: Compounds isolated from stromal cells

TITLE OF INVENTION: and methods for their use

FILE REFERENCE: 11000.1017-1

CURRENT APPLICATION NUMBER: US/09/383,586

CURRENT FILING DATE: 1999 08 26

```

; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 574
; TYPE: PRT
; ORGANISM: Mouse
US-09-383-586-36

```

```

Query Match      48.1%; Score 52; DB 3; Length 574;
Best Local Similarity 50.0%; Pred. No. 2.2;
Matches 9; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY      2 STGVTISNNHFFHHKVM 19
DB      288 NTGLFVSNHNTLNHTYVL 305

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```

RESULT 15
US-09-328-352-4715
; Sequence 4715, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: BAUMANN:1 FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/328,352
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4715
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4715

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```

Query Match      41.7%; Score 45; DB 4; Length 221;
Best Local Similarity 63.6%; Pred. No. 9.9;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      10 NHFFHHKVM 20
DB      55 NHWFSHHNVTL 65

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Search completed: October 23, 2003, 09:55:29  
 Job time : 12.4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw mode:

Run on: October 23, 2003, 09:50:14 ; Search time 10.75 Seconds  
(without alignments:  
169,580 Million cell updates/sec

Title: US-09-202-464-22

Perfect score: 115

Sequence: 1 HFFHHKVMLEGHSDIYSCD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10E\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10F\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	115	100.0	375	11	US-09-847-208-58
2	102	88.7	346	11	US-09-847-208-67
3	102	88.7	367	11	US-09-847-208-129
4	98	85.2	374	11	US-09-847-208-68
5	78	66.1	15	12	US-10-354-240-53
6	72	62.6	15	12	US-10-354-240-54
7	52	45.2	15	12	US-10-354-240-52
8	51	44.3	359	14	US-10-072-152-2
9	51	44.3	509	14	US-10-072-152-6
10	49	42.6	388	15	US-10-156-761-9848
11	46	40.0	15	12	US-10-354-240-55
12	46	40.0	397	11	US-09-847-208-17
13	45	39.1	202	9	US-09-815-242-5521
14	45	39.1	202	9	US-09-815-242-12448
15	45	39.1	202	11	US-09-966-521-30

16	45	39.1	222	12	US-10-429-024-30
17	44.5	38.7	222	12	US-10-189-346-89
18	44	38.3	225	14	US-10-125-733-2
19	43.5	37.8	228	9	US-09-847-208-129
20	43.5	37.8	228	9	US-09-815-242-1087
21	43.5	37.8	228	9	US-09-815-242-11690
22	43.5	37.8	228	9	US-09-815-242-11944
23	43.5	37.8	228	9	US-09-815-242-11968
24	43.5	37.8	228	12	US-10-287-274-352
25	42.5	37.0	133	4	US-9-981-986A-5240
26	42.5	37.0	133	4	US-9-981-986A-5240
27	42	36.5	321	12	US-10-424-421-59
28	42	36.5	321	12	US-10-424-421-59
29	42	36.5	321	12	US-10-424-421-59
30	42	36.5	321	12	US-10-424-421-59
31	42	36.5	321	12	US-10-424-421-59
32	42	36.5	321	12	US-10-424-421-59
33	42	36.5	321	12	US-10-424-421-59
34	42	36.5	321	12	US-10-424-421-59
35	42	36.5	321	12	US-10-424-421-59
36	42	36.5	321	12	US-10-424-421-59
37	42	36.5	321	12	US-10-424-421-59
38	42	36.5	321	12	US-10-424-421-59
39	42	36.5	321	12	US-10-424-421-59
40	42	36.5	321	12	US-10-424-421-59
41	42	36.5	321	12	US-10-424-421-59
42	42	36.5	321	12	US-10-424-421-59
43	42	36.5	321	12	US-10-424-421-59
44	42	36.5	321	12	US-10-424-421-59
45	42	36.5	321	12	US-10-424-421-59

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
; Sequence 58, Application US07247208  
; Publication No. US2001042197A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: US67,002A  
; CURRENT APPLICATION NUMBER: US09,847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-58

Query Match: 100.0% Score: 115, DB: 11; Length: 375  
Best Local Similarity: 100.0% Prod. No.: 4, 2e-09;  
Matches: 20, Conservative: 0, Mismatches: 0, Indels: 0, Gaps: 0

CY 1 HFFHHKVMLEGHSDIYSCD 20

DB 212 HFFHHKVMLEGHSDIYSCD 211

## RESULT 2

US-09-847-208-67  
; Sequence 67, Application US09847208  
; Publication No. US2000082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Baocheng



```

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version: 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847 208-67

```

Query Match 88.7%; Score 102; DP 11; Length 346;  
Best Local Similarity 85.0%; Pred. No. 3,28-67;  
Matches 17; Conservative 3; Mismatches 3; Indels

Qy	1	H	F	F	H	H	K	V	M	L	G	H	S	D	I	Y	S	D	20
					:	:	:	:	:	:	:	:	:	:	:	:	:	:	
Db	191	H	F	F	H <td>H</td> <td>K</td> <td>V</td> <td>M</td> <td>L</td> <td>G</td> <td>H</td> <td>D</td> <td>D</td> <td>T</td> <td>Y</td> <td>D</td> <td>D</td> <td>2:0</td>	H	K	V	M	L	G	H	D	D	T	Y	D	D	2:0

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RESULT 3
US-09-847-238-109
; Sequence 109, Application US/09847209
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxton, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Baocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: TGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: JG67 002A
; CURRENT APPLICATION NUMBER: US/09/847,206
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORIGIN: 1
; US-09-847 238-109
; UNPUBLISHED: Juniperus ashei (Ozark white cedar);

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Query Match 88.7%; Score 102; CB 11; Length 187;  
Best Local Similarity 85.0%; Pred. No. 3,49,97;  
Matches 17; Conservative 0; Mismatches 1; Gaps 0

Qy 1 HFFHHKVMLLGHSDIYSD 20  
          : : : : : : : : : :  
Db 212 HFFHHKVMLLGHDDCTYDOD 231

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RESULT 4
US-09-847 208-68
; Sequence 68, Application US/39847208
; Publication No. US200308219CA1
; GENERAL INFORMATION:
; APPLICANT: Saxen, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daicheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEC ID NO 68
; LENGTH: 374
; TYPE: prt
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-209 68

```

```

Query Match      85.2%;      Score 98;  DB 11; Length 394;
Best local Similarity 89.8%;      Eval. Ref. 1.3e-06;
Matches 17; Conservative 3; Mismatches 2; Indels 1; Type 11;

QY      2  FENHRKQVLLGHRGYSQD 20
      ||| ||| |||
DB      213 FENHRKQVLLGHRGYSQD 211

```

```

1  RESULT 5
2  US-10-354-240-53
3  / Sequence #3, Application US100-4240
4  / Publication NO. US2001-0044741
5  / GENERAL INFORMATION:
6  / APPLICANT: Sode, Toshio
7  / APPLICANT: Kume, Akio
8  / APPLICANT: Gairiki, Eizo
9  / APPLICANT: Iwama, Akiro
10 / APPLICANT: Kido, Kojiro
11 / TITLE OF INVENTION: Fast-acting immunotherapeutic Agent for Treating Allergic Disease
12 / FILE REFERENCE: SH-1001
13 / CURRENT APPLICATION NUMBER: US100-104,240
14 / PRIORITY FILING DATE: 1998-01-29
15 / PRIOR APPLICATION NUMBER: EP097200740
16 / PRIOR FILING DATE: 1997-03-10
17 / PRIOR APPLICATION NUMBER: US 08/7142,524
18 / PRIOR FILING DATE: 1998-09-06
19 / NUMBER OF SEQ. IN NOS: 124
20 / SOFTWARE: Patent in Version 3.1
21 / SEQ. IN NO 53
22 / LENGTH: 15
23 / TYPE: PRT
24 / ORGANISM: Cryptosporidium parvum
25 / FEATURE:
26 / NAME/KEY: MISC FEATURE
27 / LOCATION: 11-1115
28 / OTHER INFORMATION: City: Pop: Ed: Expense: Row: 39
29 / US-10-354-240-53

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Query Match	66.1%	Score 26	EP 12	Length 16
Best Local Similarity	62.9%	Prod. No. A.18-05		
Matches	13	Conservative	6	Matches
				Index

2	FEHUKUNLEGBE	2
11	111111	
2	FEHUKUNLEGBE	2

```

1 RESULT: 6
2 US 10:154 240 54
3 Sequence 54: Application US/10164240
4 Publication No. US29697145447A
5 GENERAL INFORMATION:
6 APPLICANT: Sore, Toshio
7 APPLICANT: Kure, Akio
8 APPLICANT: Dairiki, Kazuo
9 APPLICANT: Iwata, Akio
10 APPLICANT: Kuro, Kohei
11 TITLE OF INVENTION: Epitope Based Immunotherapeutic Agent for Treating Allergic Disease
12 FILE REFERENCE: SPO:1530
13 CURRENT APPLICATION NUMBER: US/10164 240
14 PRIOR FILING DATE: 2003-01-31
15 PRIOR APPLICATION NUMBER: PCT/JP02/00740
16 PRIOR FILING DATE: 1997-03-10
17 PRIOR APPLICATION NUMBER: US 09/147,524
18 PRIOR FILING DATE: 1998-03-06
19 NUMBER OF SEQ ID NOS: 174
20 SOFTWARE: Patent in version 3.1
21 SEQ ID NO: 54
22 LENGTH: 15
23 TYPE: PPT
24 ORGANISM: Cryptosporidium
25 FEATURE:

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? NAME/KEY: MISC FEATURE
? LOCATION: 11111115
? OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40
US-10-354-240-54
Query Match      62.6%  Score 72; DB 12; Length 15;
Best Local Similarity 86.7%  Pred. No. 0 000324
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 HKVMGLGHSDIVSD 20
DB 1 HKVMGLGHDDAYSDD 15

RESULT 7
US-10-354-240-52
? Sequence 52, Application US/10354240
? Publication No. US20030185847A1
? GENERAL INFORMATION:
? APPLICANT: Sone, Toshio
? APPLICANT: Kume, Akinori
? APPLICANT: Dairiki, Kazuo
? APPLICANT: Iwama, Akiho
? APPLICANT: Kino, Kohsuke
? TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
? FILE REFERENCE: SPO-103D1
? CURRENT APPLICATION NUMBER: US/10354,240
? CURRENT FILING DATE: 2003-01-29
? PRIOR APPLICATION NUMBER: PCT/JP97/00740
? PRIOR FILING DATE: 1997-03-10
? PRIOR APPLICATION NUMBER: US 09/142,524
? PRIOR FILING DATE: 1998-09-09
? NUMBER OF SEQ ID NOS: 174
? SOFTWARE: Patent version 3.1
? SEQ ID NO 52
? LENGTH: 15
? TYPE: PRT
? ORGANISM: Cryptomeria japonica
? FEATURE:
? NAME/KEY: MISC FEATURE
? LOCATION: 11111115
? OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40
US-10-354-240-52

Query Match      45.2%  Score 52; DB 12; Length 15;
Best Local Similarity 100.0%  Pred. No. 0 024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FNNHKKVML 10
DB 7 FNNHKKVML 15

RESULT 8
US-10-072-152-2
? Sequence 2, Application US/10072152
? Publication No. US20020142438A1
? GENERAL INFORMATION:
? APPLICANT: Andersen, Lene N.
? APPLICANT: Schulein, Martin
? APPLICANT: Lange, Niels E.
? APPLICANT: Bjornvad, Mads E.
? APPLICANT: Moller, Soren
? APPLICANT: Glad, Sanne O. S.
? APPLICANT: Kauppinen, Markus S.
? APPLICANT: Schnorr, Kirk
? APPLICANT: Kongsbak, Lars
? TITLE OF INVENTION: No. US20020142438A1; Peptide Lyases
? FILE REFERENCE: 5378-200-US
? CURRENT APPLICATION NUMBER: US/10/072,152
? CURRENT FILING DATE: 2002-02-07
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24

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? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? NUMBER OF SEQ ID NOS: 32
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 2
? LENGTH: 359
? TYPE: PRT
? ORGANISM: P. agaladirens
US 10-072-152-2

Query Match      44.0%  Score 51; DB 14; Length 152;
Best Local Similarity 64.3%  Pred. No. 11;
Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 FNNHKKVMLCHSD 15
DB 205 FNNHKKVMLCHSD 218

RESULT 9
US-10-072-152-6
? Sequence 6, Application US/10072152
? Publication No. US20020142438A1
? GENERAL INFORMATION:
? APPLICANT: Andersen, Lene N.
? APPLICANT: Schulein, Martin
? APPLICANT: Lange, Niels E.
? APPLICANT: Bjornvad, Mads E.
? APPLICANT: Moller, Soren
? APPLICANT: Glad, Sanne O. S.
? APPLICANT: Kauppinen, Markus S.
? APPLICANT: Schnorr, Kirk
? APPLICANT: Kongsbak, Lars
? TITLE OF INVENTION: No. US20020142438A1; Peptide Lyases
? FILE REFERENCE: 5378-200-US
? CURRENT APPLICATION NUMBER: US/10/072,152
? CURRENT FILING DATE: 2002-02-07
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? PRIOR APPLICATION NUMBER: US/09/198,955
? PRIOR FILING DATE: 1998-11-24
? NUMBER OF SEQ ID NOS: 32
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 6
? LENGTH: 503
? TYPE: PRT
? ORGANISM: Bacillus sp.
US 10-072-152-6

Query Match      44.3%  Score 51; DB 14; Length 152;
Best Local Similarity 64.3%  Pred. No. 15;
Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

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QY 2 FFHHKVMLLGHSD 15  
 Db 355 FFHHKVMLLGHSD 368

RESULT 10  
 US-10-156-761-9848  
 ; Sequence 9848, Application US/10-15676;  
 ; Publication No. US20030119018A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: OMURA, SATOSHI  
 ; APPLICANT: IKEDA, HARUO  
 ; APPLICANT: ISHIKAWA, JUN  
 ; APPLICANT: HORIKAWA, HIROSHI  
 ; APPLICANT: SHIBA, TADAYOSHI  
 ; APPLICANT: SAKAKI, YOSHIOYUKI  
 ; APPLICANT: HATTORI, MASAHIRO  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-262  
 ; CURRENT APPLICATION NUMBER: US/10/156,761  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-204043  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIOR APPLICATION NUMBER: JP 2001-272497  
 ; PRIOR FILING DATE: 2001-09-02  
 ; NUMBER OF SEQ ID NOS: 15109  
 ; SEQ ID NO: 9848  
 ; LENGTH: 398  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermitilis  
 US-10-156-761-9848

Query Match 42.6%; Score 43; DB 15; Length 398;  
 Best Local Similarity 45.0%; Pred. No. 23;  
 Matches 9; Conservative 4; Mismatches 5; Indels 2; Gaps 17

QY 1 FFHHKVMLLGHSDIYSCD 20  
 Db 246 HLYNH-VFLNGHTJURJDE 263

RESULT 11  
 US-10-354-240-55  
 ; Sequence 55, Application US/10/354240  
 ; Publication No. US20030168947A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akinori  
 ; APPLICANT: Oairiki, Kazuo  
 ; APPLICANT: Iwata, Akiko  
 ; APPLICANT: King, Kohsuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 ; FILE REFERENCE: SPO-103D1  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/02346  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1999-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO: 55  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 11..115  
 ; OTHER INFORMATION: Cys11 peptide, Figure 1, Row 41  
 US-10-354-240-55

Query Match 40.0%; Score 46; DB 12; Length 15;  
 Best Local Similarity 80.0%; Pred. No. 2,2;

Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0  
 QY 11 UNDSIVNED 17  
 Db 11 UNDSIVNED 17

RESULT 12  
 US-09-847-208-17  
 ; Sequence 17, Application US 0944717A  
 ; Publication No. US20030168947A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Danyang  
 ; TITLE OF INVENTION: RECOMBINANT PROTEINS AND TREATMENT OF  
 ; FILE REFERENCE: 1007-1074  
 ; CURRENT APPLICATION NUMBER: US20030168947A1  
 ; CURRENT FILING DATE: 2003-03-01  
 ; NUMBER OF SEQ ID NOS: 17  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO: 17  
 ; LENGTH: 397  
 ; TYPE: PRT  
 ; ORGANISM: Actinobacteria  
 US-09-847-208-17

Query Match 40.0%; Score 46; DB 12; Length 397;  
 Best Local Similarity 47.1%; Pred. No. 64;  
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0

QY 2 FFHHKVMLLGHSDIYSCD 20  
 Db 246 HLYNH-VFLNGHTJURJDE 263

RESULT 13  
 US-09-810-242-0421  
 ; Sequence 521, Application US090455242  
 ; Patent No. US20020061509A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Haselbeck, Robert  
 ; APPLICANT: Chisem, Karl  
 ; APPLICANT: Zyskind, Judith W.  
 ; APPLICANT: Wall, Daniel  
 ; APPLICANT: Trankow, John D.  
 ; APPLICANT: Carr, Grant J.  
 ; APPLICANT: Yamamoto, Robert T.  
 ; APPLICANT: Xu, H. Howard  
 ; TITLE OF INVENTION: Identification of Essential Genes in  
 ; FILE REFERENCE: ELIIPA 011A  
 ; CURRENT APPLICATION NUMBER: US/09/810,242  
 ; CURRENT FILING DATE: 2001-03-21  
 ; PRIOR APPLICATION NUMBER: 60/311,019  
 ; PRIOR FILING DATE: 2000-03-21  
 ; PRIOR APPLICATION NUMBER: 60/206,548  
 ; PRIOR FILING DATE: 2000-05-23  
 ; PRIOR APPLICATION NUMBER: 60/299,327  
 ; PRIOR FILING DATE: 2000-06-26  
 ; PRIOR APPLICATION NUMBER: 60/242,578  
 ; PRIOR FILING DATE: 2003-10-23  
 ; PRIOR APPLICATION NUMBER: 60/253,624  
 ; PRIOR FILING DATE: 2003-11-27  
 ; PRIOR APPLICATION NUMBER: 60/257,331  
 ; PRIOR FILING DATE: 2003-12-22  
 ; PRIOR APPLICATION NUMBER: 60/269,308  
 ; PRIOR FILING DATE: 2001-09-16  
 ; NUMBER OF SEQ ID NOS: 14110  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO: 521  
 ; LENGTH: 263

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; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-5521

Query Match      39.1%  Score 45; DB 3; Length 202;
Best Local Similarity 41.2%; Pred. No. 44;
Matches 7; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 4 NHHKVMLLGHSDIYSD 20
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Db 23 NHHKIDLTONGVFSKD 39

RESULT 14
US-09-815-242-12448
; Sequence 12448, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Christen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/C9/815-242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,309
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 1410
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12448
; LENGTH: 202
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-12448

Query Match      39.1%  Score 45; DB 3; Length 202;
Best Local Similarity 41.2%; Pred. No. 44;
Matches 7; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 4 NHHKVMLLGHSDIYSD 20
    ||||| : : : |||
Db 23 NHHKIDLTONGVFSKD 39

RESULT 15
US-09-966-521-30
; Sequence 30, Application US/09966521
; Publication No. US20030087321A1
; GENERAL INFORMATION:
; APPLICANT: TOMICH, Che-Shen
; APPLICANT: QUINN, Cheryl
; APPLICANT: ARVIDSON, Staffan
; APPLICANT: HARRIS, Douglas
; APPLICANT: MOTT, John
; TITLE OF INVENTION: ANTIMICROBIAL METHODS AND MATERIALS

```

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; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815-242
; CURRENT FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 1410
; SOFTWARE: Patent In Windows V4.0
; SEQ ID NO 10
; LENGTH: 202
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-966-521-30

Query Match      39.1%  Score 45; DB 11; Length 202;
Best Local Similarity 41.2%; Pred. No. 44;
Matches 7; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 4 NHHKVMLLGHSDIYSD 20
    ||||| : : : |||
Db 23 NHHKIDLTONGVFSKD 39

Search completed: October 13, 2003, 11:11:52
Job time : 20.78 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 : Search time 11.4 Seconds

(without alignments)

74,230 Million cell updates/sec

Title: US-09-202-464-22

Perfect score: 115

Sequence: 1 HFFNHHKVMGLGHSIDYSD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/2/iaa/5A COMB pep:\*
- 2: /cgn2\_6/ptodata/2/iaa/5B COMB pep:\*
- 3: /cgn2\_6/ptodata/2/iaa/6A COMB pep:\*
- 4: /cgn2\_6/ptodata/2/iaa/6B COMB pep:\*
- 5: /cgn2\_6/ptodata/2/iaa/6CTUS COMB pep:\*
- 6: /cgn2\_6/ptodata/2/iaa/6CTUS COMB pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARYS

Result No.	Score	Query Match	Length	DB ID	Description
1	102	88.7	367	3	US-08-467-023-95
2	98	85.2	20	3	US-08-467-023-45
3	98	85.2	50	3	US-08-467-023-69
4	98	85.2	90	3	US-08-467-023-64
5	98	85.2	374	3	US-08-467-023-64
6	87	75.7	370	3	US-08-467-023-97
7	52	45.2	20	3	US-08-467-023-44
8	51	44.3	359	3	US-09-598-955A-2
9	51	44.3	359	3	US-09-395-858A-2
10	51	44.3	359	3	US-09-694-531-2
11	51	44.3	509	4	US-09-598-955A-6
12	51	44.3	509	4	US-09-694-531-6
13	46	40.0	20	3	US-08-467-023-46
14	46	40.0	388	1	US-08-290-448A-80
15	46	40.0	388	1	US-08-290-448A-80
16	46	40.0	388	1	US-08-175-069A-80
17	46	40.0	388	4	US-08-461-039B-60
18	46	40.0	388	4	US-08-464-000-80
19	44	38.3	206	4	US-09-219-797-2
20	44	38.3	868	1	US-08-220-151-7
21	44	38.3	868	1	US-08-413-118-7
22	44	38.3	868	3	US-08-804-439A-21
23	44	38.3	868	3	US-08-473-446-7
24	44	38.3	868	3	US-08-723-229-21
25	43.5	37.8	310	4	US-09-328-352-5389
26	43.5	37.8	310	4	US-09-328-352-5389
27	42	36.5	36	1	US-08-039-137-40

25	42	36.5	36	1	US-08-039-137-40	Sequence 43, Appl
29	42	36.5	169	4	US-09-252-991A-19173	Sequence 1373, A
30	42	36.5	193	4	US-03-114-001C-4757	Sequence 4757, Ap
31	42	36.5	237	3	US-08-470-525-14	Sequence 14, Appl
32	42	36.5	342	4	US-09-328-352-5375	Sequence 5375, Ap
33	42	36.5	599	2	US-08-846-762-97	Sequence 97, Appl
34	42	36.5	1134	4	US-09-022-285-76	Sequence 76, Appl
35	42	36.5	1134	4	US-09-593-477-76	Sequence 76, Appl
36	42	36.5	1156	3	US-09-521-982-10	Sequence 10, Appl
37	42	36.5	1156	4	US-09-322-285-74	Sequence 74, Appl
38	42	36.5	1156	4	US-09-598-477-70	Sequence 70, Appl
39	42	36.5	145	2	US-08-732-153-4	Sequence 2, Appl
40	42	36.5	342	2	US-09-732-153-4	Sequence 4, Appl
41	42	36.5	461	1	US-08-672-571A-3	Sequence 3, Appl
42	42	36.5	490	1	US-08-672-571A-3	Sequence 3, Appl
43	42	36.5	1156	4	US-09-322-285-74	Sequence 74, Appl
44	42	36.5	1156	4	US-09-598-477-74	Sequence 74, Appl
45	42	36.5	1156	4	US-09-322-285-72	Sequence 72, Appl

## ADDITIONS

RESULT :  
US-08-467-023-95  
Sequence 95, Application US/08467023  
Patent No. 6793164  
GENERAL INFORMATION:  
APPLICANT: Griffiths, Irwin J.  
APPLICANT: Pollock, Jeanne F.  
APPLICANT: Bond, William F.  
APPLICANT: Garman, Richard F.  
APPLICANT: Kuo, Wei-Chang  
APPLICANT: Yaman, Saito H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven J.  
TITLE OF INVENTION: Antigenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc  
STREET: 610 Lincoln St  
CITY: Waltraut  
STATE: VA  
COUNTRY: USA  
ZIP: 22154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08467023  
APPLICATION NUMBER: US/08467023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Reilly  
REGISTRATION NUMBER: 39,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI 028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 1617/ 227-7400  
TELEFAX: 1617/ 227-5941  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-95

Query Match: 88.7%; Score 102; DB 3; Length 367;  
 Best Local Similarity 85.0%; Pred. No. 9.7e 09;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 FFENHHKVMLLGHSDIYSD 20  
 |||||  
 Db 212 FFENHHKVMLLGHSDIYSD 231

## RESULT 2

US-08-467-023-45  
 ? Sequence 45, Application US/08467023  
 ? Patent No. 6090386  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Griffith, Irwin J.  
 ? APPLICANT: Pollock, Joanne.  
 ? APPLICANT: Bond, Julian F.  
 ? APPLICANT: Garman, Richard D.  
 ? APPLICANT: Kuo, Mei-Chang;  
 ? APPLICANT: Yeung, Siu-mei H.;  
 ? APPLICANT: Brauer, Andrew;  
 ? APPLICANT: Exley, Mark A.;  
 ? APPLICANT: Powers, Steven P.  
 ? TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ? NUMBER OF SEQUENCES: 261  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ? STREET: 610 Lincoln St  
 ? CITY: Waltham  
 ? STATE: MA  
 ? COUNTRY: USA  
 ? ZIP: 02154  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: Patent Release #1.0, Version #1.25  
 ? CURRENT APPLICATION NUMBER: US/08/467,023  
 ? FILING DATE: June 6, 1995  
 ? CLASSIFICATION: 424  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: 08/350,225  
 ? FILING DATE: December 6, 1994  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Jace E. Remillard  
 ? REGISTRATION NUMBER: 38,872  
 ? REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-C2HCP02)  
 ? TELEPHONE: (617) 227-7400  
 ? TELEFAX: (617) 227-5941  
 ? INFORMATION FOR SEQ ID NO: 45:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 20 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: peptide  
 ? FRAGMENT TYPE: internal  
 ? US-08-467-023-45

Query Match: 85.2%; Score 98; DB 1; Length 20;  
 Best Local Similarity 89.5%; Pred. No. 1.7e 08;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 FFENHHKVMLLGHSDIYSD 20  
 |||||  
 Db 2 FFENHHKVMLLGHSDIYSD 20

## RESULT 3

US-08-467-023-69

? Sequence 69, Application US/08467024  
 ? Patent No. 6090386  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Griffith, Irwin J.  
 ? APPLICANT: Pollock, Joanne.  
 ? APPLICANT: Bond, Julian F.  
 ? APPLICANT: Garman, Richard D.  
 ? APPLICANT: Kuo, Mei-Chang;  
 ? APPLICANT: Yeung, Siu-mei H.;  
 ? APPLICANT: Brauer, Andrew;  
 ? APPLICANT: Exley, Mark A.;  
 ? APPLICANT: Powers, Steven P.  
 ? TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ? NUMBER OF SEQUENCES: 261  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ? STREET: 610 Lincoln St  
 ? CITY: Waltham  
 ? STATE: MA  
 ? COUNTRY: USA  
 ? ZIP: 02154  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: Patent Release #1.0, Version #1.25  
 ? CURRENT APPLICATION NUMBER: US/08/467,024  
 ? FILING DATE: June 6, 1995  
 ? CLASSIFICATION: 424  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: 08/350,225  
 ? FILING DATE: December 6, 1994  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Jace E. Remillard  
 ? REGISTRATION NUMBER: 38,872  
 ? REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-C2HCP02)  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617) 227-7400  
 ? TELEFAX: (617) 227-5941  
 ? INFORMATION FOR SEQ ID NO: 69:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 50 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: peptide  
 ? FRAGMENT TYPE: internal  
 ? US-08-467-023-69

Query Match: 85.2%; Score 94; DB 3; Length 50;  
 Best Local Similarity 89.5%; Pred. No. 4.5e 08;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 FFENHHKVMLLGHSDIYSD 20  
 |||||  
 Db 2 FFENHHKVMLLGHSDIYSD 20

## RESULT 4

US-08-467-023-64  
 ? Sequence 64, Application US/08467023  
 ? Patent No. 6090386  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Griffith, Irwin J.  
 ? APPLICANT: Pollock, Joanne.  
 ? APPLICANT: Bond, Julian F.  
 ? APPLICANT: Garman, Richard D.  
 ? APPLICANT: Kuo, Mei-Chang;  
 ? APPLICANT: Yeung, Siu-mei H.;  
 ? APPLICANT: Brauer, Andrew;  
 ? APPLICANT: Exley, Mark A.;  
 ? APPLICANT: Powers, Steven P.

```

1  TITLE OF INVENTION: Allergenic Proteins And Peptides From
2  TITLE OF INVENTION: Japanese Cedar Pollen
3  NUMBER OF SEQUENCES: 261
4  CORRESPONDENCE ADDRESS: 261
5  ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
6  STREET: 610 Lincoln St
7  CITY: Waltham
8  STATE: MA
9  COUNTRY: USA
10 ZIP: 02154
11
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE: Floppy disk
14 COMPUTER: IBM PC compatible
15 OPERATING SYSTEM: PC-DOS/MS-DOS
16 SOFTWARE: Patent In Release #1.0, Version #1.25
17 CURRENT APPLICATION DATA:
18 APPLICATION NUMBER: US/08/467,023
19 FILING DATE: June 6, 1995
20 CLASSIFICATION: 424
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: 08/350,225
23 FILING DATE: December 6, 1994
24 ATTORNEY/AGENT INFORMATION:
25 NAME: Jane E. Remillard
26 REGISTRATION NUMBER: 38,872
27 REFERENCE/DOCKET NUMBER: 025.6 USD2 (X1 028.P02)
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE: (617) 227-7430
30 TELEFAX: (617) 227-7441
31 INFORMATION FOR SEQ ID NO: 64:
32 SEQUENCE CHARACTERISTICS:
33 LENGTH: 90 amino acids
34 TYPE: amino acid
35 TOPOLOGY: linear
36 MOLECULE TYPE: Peptide
37 FRAGMENT TYPE: Internal
38
39 US-08-467-023-64

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```

Query Match      85.2% Score 98: DB 3: Length 90:
Best Local Similarity 89.5% Pred. No. 8.5e 08;
Matches 17: Conservative 0: Mismatches 2: Indels 0: Gaps 0:

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QY 2 FNNHKKVMLLGHSDIYSDD 20
   ||||| ||||| ||
Db 2 FNNHKKVMLLGHDDAYSDD 20

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```

RESULT 5
US-08-467-023-2
1 Sequence 2: Application US/08467023
2 Patent No. 6090386
3 GENERAL INFORMATION:
4 APPLICANT: Griffith, Irwin J.;
5 APPLICANT: Pollock, Joanne;
6 APPLICANT: Bond, Julian F.;
7 APPLICANT: Garman, Richard D.;
8 APPLICANT: Kuo, Wei-Chang;
9 APPLICANT: Yeung, Siu-mei H.;
10 APPLICANT: Brauer, Andrew;
11 APPLICANT: Exley, Mark A.;
12 APPLICANT: Powers, Steven P.
13 TITLE OF INVENTION: Allergenic Proteins And Peptides From
14 TITLE OF INVENTION: Japanese Cedar Pollen
15 NUMBER OF SEQUENCES: 261
16 CORRESPONDENCE ADDRESS:
17 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
18 STREET: 610 Lincoln St
19 CITY: Waltham
20 STATE: MA
21 COUNTRY: USA
22 ZIP: 02154
23 COMPUTER READABLE FORM:
24 MEDIUM TYPE: Floppy disk

```

```

1 COMPUTER: IBM PC compatible
2 OPERATING SYSTEM: PC-DOS/MS-DOS
3 SOFTWARE: Patent In Release #1.0, Version #1.25
4 CURRENT APPLICATION DATA:
5 APPLICATION NUMBER: US/08/467,023
6 FILING DATE: June 6, 1995
7 CLASSIFICATION: 424
8 PRIOR APPLICATION DATA:
9 APPLICATION NUMBER: 08/350,225
10 FILING DATE: December 6, 1994
11 ATTORNEY/AGENT INFORMATION:
12 NAME: Jane E. Remillard
13 REGISTRATION NUMBER: 38,872
14 REFERENCE/DOCKET NUMBER: 025.6 USD2 (X1 028.P02)
15 TELECOMMUNICATION INFORMATION:
16 TELEPHONE: (617) 227-7430
17 TELEFAX: (617) 227-7441
18 INFORMATION FOR SEQ ID NO: 64:
19 SEQUENCE CHARACTERISTICS:
20 LENGTH: 90 amino acids
21 TYPE: amino acid
22 TOPOLOGY: linear
23 MOLECULE TYPE: peptide
24
25 US 08 467 023 2

```

```

Query Match      85.2% Score 98: DB 3: Length 90:
Best Local Similarity 89.5% Pred. No. 8.5e 08;
Matches 17: Conservative 0: Mismatches 2: Indels 0: Gaps 0:

```

```

QY 2 FNNHKKVMLLGHSDIYSDD 20
   ||||| ||||| ||
Db 2 FNNHKKVMLLGHDDAYSDD 20

```

```

RESULT 5
US-08-467-023-97
1 Sequence 97: Application US/08467024
2 Patent No. 6090386
3 GENERAL INFORMATION:
4 APPLICANT: Griffith, Irwin J.;
5 APPLICANT: Pollock, Joanne;
6 APPLICANT: Bond, Julian F.;
7 APPLICANT: Garman, Richard D.;
8 APPLICANT: Kuo, Wei-Chang;
9 APPLICANT: Yeung, Siu-mei H.;
10 APPLICANT: Brauer, Andrew;
11 APPLICANT: Exley, Mark A.;
12 APPLICANT: Powers, Steven P.
13 TITLE OF INVENTION: Allergenic Proteins And Peptides From
14 TITLE OF INVENTION: Japanese Cedar Pollen
15 NUMBER OF SEQUENCES: 261
16 CORRESPONDENCE ADDRESS:
17 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
18 STREET: 610 Lincoln St
19 CITY: Waltham
20 STATE: MA
21 COUNTRY: USA
22 ZIP: 02154
23 COMPUTER READABLE FORM:
24 MEDIUM TYPE: Floppy disk
25 OPERATING SYSTEM: PC-DOS/MS-DOS
26 SOFTWARE: Patent In Release #1.0, Version #1.25
27 CURRENT APPLICATION DATA:
28 APPLICATION NUMBER: US/08/467,023
29 FILING DATE: June 6, 1995
30 CLASSIFICATION: 424
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: 08/350,225
33 FILING DATE: December 6, 1994
34 ATTORNEY/AGENT INFORMATION:
35 NAME: Jane E. Remillard
36 REGISTRATION NUMBER: 38,872

```

REFERENCE/DOCKET NUMBER: 025.6 USP2 (INT: 028CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 97:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 370 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-97

Query Match 75.7% Score 87 DB 3 Length 370  
Best Local Similarity 75.0% Pred. No. 1.7e-06  
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0

OY 1 HFNHKKVMLGHSDIVSD 20  
DB 212 HFFCHDEVMLGHSDSPSD 231

RESULT 7  
US-08-467-023-44

Sequence 44, Application US/08467023  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Joanne  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuo, Mei-Chang  
APPLICANT: Yeung, Siu-mei H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent'n Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USP2 (INT: 028CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-44

Query Match 45.8% Score 52 DB 3 Length 20  
Best Local Similarity 100.0% Pred. No. 0.11  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0

OY 2 FENHKKV 17  
DB 12 FENHKKV 20

RESULT 8

US-09-198-958A-2  
Sequence 2, Application US/09198958A  
Patent No. 6181583  
GENERAL INFORMATION:  
APPLICANT: Anderson, Lasse H  
APPLICANT: Schleich, Martin  
APPLICANT: Lange, Niels P.  
APPLICANT: Bjorqvist, Vajda  
APPLICANT: Mellner, Stefan  
APPLICANT: Olaf, Soren  
APPLICANT: Karpman, Markus S  
APPLICANT: Schrott, Ralf  
APPLICANT: Kossack, Gern  
TITLE OF INVENTION: Methods For Treating Proteinases In  
FILE REFERENCE: 5670,000-06  
CURRENT APPLICATION NUMBER: US/09/198,958A  
PRIOR FILING DATE: 1997-11-24  
PRIOR FILING DATE: 1997-11-24  
PRIOR FILING DATE: 1997-11-24  
PRIOR FILING DATE: 1997-11-24  
PRIOR FILING DATE: 1997-12-02  
PRIOR FILING DATE: 1997-12-02  
PRIOR FILING DATE: 1997-12-02  
PRIOR FILING DATE: 1998-05-04  
PRIOR FILING DATE: 1998-05-04  
PRIOR FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: FASTSEQ for Windows Version 1.0  
SEQ ID NO: 1  
LENGTH: 359  
TYPE: FFP  
ORGANISM: E. coli  
US-09-198-958A-2

Query Match 44.8% Score 51 DB 3 Length 359  
Best Local Similarity 64.0% Pred. No. 4.1  
Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0

OY 2 FENHKKVMLGHSD 15  
DB 205 FENHKKVMLGHSD 218

RESULT 9

US-09-195-858A-2  
Sequence 2, Application US/09195858A  
Patent No. 6242014  
GENERAL INFORMATION:  
APPLICANT: Feng Xu  
TITLE OF INVENTION: Methods For Treating Proteinases In  
FILE REFERENCE: 5670,000-06  
CURRENT APPLICATION NUMBER: US/09/195,858A  
PRIOR FILING DATE: 1999-09-14  
PRIOR FILING DATE: 1999-09-14  
PRIOR FILING DATE: 1999-09-14  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: FASTSEQ for Windows Version 1.0  
SEQ ID NO: 2  
LENGTH: 359



TYPE: PRT  
 ORGANISM: Bacillus agaradherens  
 US-09-395-858A-2

Query Match 44.3%; Score 51; DB 3; Length 359;  
 Best Local Similarity 64.3%; Pred. No. 4;  
 Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 FENHHKVMLLGHSD 15  
 DB 205 FENHWKTLVGHSD 218

## RESULT 10

US-09-694-531-2  
 Sequence 2, Application US/09594531  
 Patent No. 6368843  
 GENERAL INFORMATION:  
 APPLICANT: Andersen, Lene N.  
 APPLICANT: Schulein, Martin  
 APPLICANT: Lange, Niels E.  
 APPLICANT: Bjornvad, Mads E.  
 APPLICANT: Moller, Soren  
 APPLICANT: Glad, Sanne O. S.  
 APPLICANT: Kauppinen, Markus S.  
 APPLICANT: Schnorr, Kirk  
 APPLICANT: Kongsbak, Lars

TITLE OF INVENTION: No. 6368843el Pectate Lyases  
 FILE REFERENCE: 5378.200-US  
 CURRENT APPLICATION NUMBER: US/09/694.531  
 PRIOR FILING DATE: 2000 10-23  
 PRIOR APPLICATION NUMBER: 09/198.955  
 PRIOR FILING DATE: 1998-11-24  
 PRIOR APPLICATION NUMBER: 1343/97  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 1344/97  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/067,249  
 PRIOR FILING DATE: 1997-12-02  
 PRIOR APPLICATION NUMBER: 60/067,240  
 PRIOR FILING DATE: 1997-12-02  
 PRIOR APPLICATION NUMBER: 09/073,684  
 PRIOR FILING DATE: 1998-05-06  
 PRIOR APPLICATION NUMBER: 09/184,217  
 PRIOR FILING DATE: 1998-11-02  
 NUMBER OF SEQ ID NOS: 32  
 SOFTWARE: FastSeq for Windows Version: 4.0  
 SEQ ID NO 2  
 LENGTH: 359  
 TYPE: PRT  
 ORGANISM: B. agaradherens

US-09-694-531-2

Query Match 44.3%; Score 51; DB 4; Length 359;  
 Best Local Similarity 64.3%; Pred. No. 4;  
 Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 FENHHKVMLLGHSD 15  
 DB 205 FENHWKTLVGHSD 218

## RESULT 11

US-09-198-955A-6  
 Sequence 6, Application US/09198955A  
 Patent No. 6187583  
 GENERAL INFORMATION:  
 APPLICANT: Andersen, Lene N.  
 APPLICANT: Schulein, Martin  
 APPLICANT: Lange, Niels E.  
 APPLICANT: Bjornvad, Mads E.  
 APPLICANT: Moller, Soren  
 APPLICANT: Glad, Sanne O. S.

APPLICANT: Kauppinen, Markus S.  
 APPLICANT: Schnorr, Kirk  
 APPLICANT: Kongsbak, Lars  
 TITLE OF INVENTION: No. 6187583el Pectate Lyases  
 FILE REFERENCE: 5378.200-US  
 CURRENT APPLICATION NUMBER: US/09/198.955A  
 PRIOR FILING DATE: 1998-11-24  
 PRIOR APPLICATION NUMBER: 1343/97  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 1344/97  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/067,249  
 PRIOR FILING DATE: 1997-12-02  
 PRIOR APPLICATION NUMBER: 60/067,240  
 PRIOR FILING DATE: 1997-12-02  
 PRIOR APPLICATION NUMBER: 09/073,684  
 PRIOR FILING DATE: 1998-05-06  
 PRIOR APPLICATION NUMBER: 09/184,217  
 PRIOR FILING DATE: 1998-11-02  
 NUMBER OF SEQ ID NOS: 32  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 6  
 LENGTH: 509  
 TYPE: PRT  
 ORGANISM: Bacillus sp.

US-09-198-955A-6

Query Match 44.3%; Score 51; DB 3; Length 359;  
 Best Local Similarity 64.3%; Pred. No. 5; 9;  
 Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 FENHHKVMLLGHSD 15  
 DB 155 FENHWKTLVGHSD 168

## RESULT 12

US-09-694-531-6  
 Sequence 6, Application US/09694511  
 Patent No. 6368843  
 GENERAL INFORMATION:  
 APPLICANT: Andersen, Lene N.  
 APPLICANT: Schulein, Martin  
 APPLICANT: Lange, Niels E.  
 APPLICANT: Bjornvad, Mads E.  
 APPLICANT: Moller, Soren  
 APPLICANT: Glad, Sanne O. S.  
 APPLICANT: Kauppinen, Markus S.  
 APPLICANT: Schnorr, Kirk  
 APPLICANT: Kongsbak, Lars  
 TITLE OF INVENTION: No. 6368843el Pectate Lyases  
 FILE REFERENCE: 5378.200 US  
 CURRENT APPLICATION NUMBER: US/09/694.511  
 PRIOR FILING DATE: 2000 10-23  
 PRIOR APPLICATION NUMBER: 09/198.955  
 PRIOR FILING DATE: 1998-11-24  
 PRIOR APPLICATION NUMBER: 1343/97  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 1344/97  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/067,249  
 PRIOR FILING DATE: 1997-12-02  
 PRIOR APPLICATION NUMBER: 60/067,240  
 PRIOR FILING DATE: 1997-12-02  
 PRIOR APPLICATION NUMBER: 09/073,684  
 PRIOR FILING DATE: 1998-05-06  
 PRIOR APPLICATION NUMBER: 09/184,217  
 PRIOR FILING DATE: 1998-11-02  
 NUMBER OF SEQ ID NOS: 32  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 6  
 LENGTH: 509  
 TYPE: PRT



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: COMPUTER READABLE FORM:
: MEDICAL TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version: #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/290,448A
: FILING DATE: August 15, 1994
: PPIR APPLICATION DATA:
: APPLICATION NUMBER: US 07/529,951
: FILING DATE: May 29, 1990
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: March 17, 1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IM1-C1ACN
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)227-5941
: INFORMATION FOR SEQ ID NO: 80:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 388 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-290-448A-83

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```

Query Match      40.0%; Score 46; DB 1; Length 388.
Best Local Similarity 47.4%; Pred. No. 25.
Matches      9; Conservative      3; Mismatches      7; Indels      2; Gaps      0.

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Db      228 FTHHEKAVLLGASSTHPQ 246

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Search completed: October 23, 2003, 09:55:30
Job time : 12.4 secs

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GenCore version 5.2.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 ; Search time: 19.75 Seconds  
(without alignment)  
169.582 Million cell updates/sec

Title: US-09-202-464-23  
Perfect score: 103  
Sequence: 1 LGHSDIYSDSKMKVTAFN 23

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 62932

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.
- 3: /cgn2\_6/ptodata/1/pubpaa/US05\_NEW\_PUB.pep.
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.
- 7: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.
- 9: /cgn2\_6/ptodata/1/pubpaa/US05\_PUBCOMB.pep.
- 10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.
- 11: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.
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- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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4	90	87.4	367	11	US-09-847-208 109
5	71	68.9	15	12	US-10-354-240 56
6	69	67.0	15	12	US-10-354-240 55
7	52	50.5	397	11	US-09-847-208 15
8	52	50.5	398	11	US-09-847-208 14
9	48	46.6	15	12	US-10-354-240 9
10	48	46.6	15	12	US-10-354-240 57
11	48	46.6	15	12	US-10-354-240 15a
12	48	46.6	397	11	US-09-847-208 17
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14	45	43.7	950	9	US-09-815-242 11271
15	44	42.7	337	15	US-10-156-761-10534

16	42	40.8	245	11	US-09-847-208 98
17	42	40.8	245	15	US-10-205-823-363
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20	41	39.8	358	11	US-09-847-208 113
21	41	39.8	552	12	US-09-882-227-496
22	41	39.8	216	10	US-09-847-208 545
23	40	38.8	12	12	US-10-354-240 10
24	40	38.8	144	12	US-10-091-027 206
25	40	38.8	442	10	US-09-847-208 521a
26	40	38.8	520	12	US-09-976-782 26
27	39	37.9	40	12	US-10-354-240 1
28	39	37.9	153	12	US-10-354-240 2
29	39	37.9	123	10	US-09-764-864 1352
30	39	37.9	14	12	US-10-354-240 2
31	39	37.9	212	9	US-09-815-242 12849
32	39	37.9	212	9	US-09-815-242 13597
33	39	37.9	220	12	US-10-017 161 382
34	39	37.9	255	12	US-10-017 161 212
35	39	37.9	313	9	US-09-815-242 5822
36	39	37.9	313	10	US-10-024 199 4
37	39	37.9	314	10	US-10-024 199 4
38	39	37.9	315	12	US-09-949-029 15
39	38.5	37.4	538	15	US-10-244 264 98
40	38.5	37.4	313	9	US-09-815-242 4976
41	38.5	37.4	313	9	US-09-815-242 1543
42	38	36.9	98	11	US-09-847-208 050a 117
43	38	36.9	152	9	US-09-847-208 121
44	38	36.9	315	12	US-10-105 2948 2
45	38	36.9	315	12	US-10-105 261 2

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
; Sequence 58, Application US/09847208  
; Publication No: US20000190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zou, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: THE MUTATED ALZHEIMER DISEASES  
; FILE REFERENCE: US07/06024  
; CURRENT FILING DATE: 2001 05 21  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 58  
; TYPE: PPT  
; LENGTH: 375  
; ORGANISM: Characomyxys obsoleta (Japanese cyprinid)  
US-09-847-208-58

Query Match 100.0% Score 103; DB 11; Length 375  
Ref. loc. Similarity 100.0% Ref. No. 676 09;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Oy 1 LGHSDIYSDSKMKVTAFN 20

Cb 222 LGHSDIYSDSKMKVTAFN 241

RESULT 2  
US-09-847-208-68

; Sequence 68, Application US/09847208  
; Publication No: US200002190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zou, Daocheng

Query Match 91.3%; Score 94; DB 11; Length 174;  
Best Local Similarity 90.0%; Pred. No. 2, 1e-17;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 68  
LENGTH: 374  
TYPE: PRT  
ORGANISM: Cryptomeria japonica (Japanese cedar)  
US-09-847-208-68

Query Match 91.3%; Score 94; DB 11; Length 174;  
Best Local Similarity 90.0%; Pred. No. 2, 1e-17;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYSDCKSMKVTVAFN 20  
DB 222 LGHSDIYSDCKSMKVTVAFN 241

RESULT 3  
US-09-847-208-67  
Sequence 67, Application US/09847208  
Publication No. US20030082190A1

GENERAL INFORMATION:  
APPLICANT: Saxton, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Daocheng  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 67  
LENGTH: 346  
TYPE: PRT  
ORGANISM: Cupressus arizonica  
US-09-847-208-67

Query Match 87.4%; Score 90; DB 11; Length 346;  
Best Local Similarity 85.0%; Pred. No. 1, 7e-07;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LGHSDIYSDCKSMKVTVAFN 20  
DB 221 LGHSDIYSDCKSMKVTVAFN 220

RESULT 4  
US-09-847-208-109  
Sequence 109, Application US/09847208  
Publication No. US20030082190A1

GENERAL INFORMATION:  
APPLICANT: Saxton, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Daocheng  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847.208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 109  
LENGTH: 367  
TYPE: PRT  
ORGANISM: Juniperus ashei (Ozark white cedar)  
US-09-847-208-109

Query Match 87.4%; Score 90; DB 11; Length 367;  
Best Local Similarity 85.0%; Pred. No. 1, 7e-07;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LGHSDIYSDCKSMKVTVAFN 20  
DB 222 LGHSDIYSDCKSMKVTVAFN 241

RESULT 5  
US-10-354-240-56  
Sequence 56, Application US/010114240  
Publication No. US2004019470A1

GENERAL INFORMATION:  
APPLICANT: Some, Toshio  
APPLICANT: Kume, Akimichi  
APPLICANT: Daitoku, Kazuo  
APPLICANT: Iwara, Akiko  
APPLICANT: Kikuchi, Kenji  
TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SEQ ID NO 1  
CURRENT APPLICATION NUMBER: US/10/354.240  
CURRENT FILING DATE: 2004-03-29  
PRIOR APPLICATION NUMBER: PCT/JP99/06740  
PRIOR FILING DATE: 1999-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1999-09-01  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: Patent in version 3.1  
SEQ ID NO 56  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: 1..154  
OTHER INFORMATION: Cys144-146, Figure 1, Row 42  
US-10-354-240-56

Query Match 68.3%; Score 71; DB 12; Length 15;  
Best Local Similarity 66.0%; Pred. No. 3, 1e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YSCCKSMKVTVAFN 20  
DB 3 YSCCKSMKVTVAFN 15

RESULT 6  
US-10-354-240-56  
Sequence 56, Application US/010114240  
Publication No. US2004019470A1

GENERAL INFORMATION:  
APPLICANT: Some, Toshio  
APPLICANT: Kume, Akimichi  
APPLICANT: Daitoku, Kazuo  
APPLICANT: Iwara, Akiko  
APPLICANT: Kikuchi, Kenji  
TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SEQ ID NO 1  
CURRENT APPLICATION NUMBER: US/10/354.240  
CURRENT FILING DATE: 2004-03-29  
PRIOR APPLICATION NUMBER: PCT/JP99/06740  
PRIOR FILING DATE: 1999-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1999-09-01  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: Patent in version 3.1  
SEQ ID NO 55  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE:

```

; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 41
US-10-354-240-55

Query Match      67.0%; Score 69; DB 12; Length 15;
Best Local Similarity 86.7%; Pred. No. 6.6e-06;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYDDKSMKV 15
   ||| ||||| |||||
DB 1 LGRDDAYSDDKSMKV 15

RESULT 7
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UG67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed);
US-09-847-208-15

Query Match      50.5%; Score 52; DB 11; Length 397;
Best Local Similarity 55.0%; Pred. No. 2;
Matches 11; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 LGHSDIYDDKSMKVTVAFN 20
   ||| ||| ||| |||
DB 246 LGADDTYQDKGMLATVAFN 265

RESULT 8
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UG67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed);
US-09-847-208-14

Query Match      50.5%; Score 52; DB 11; Length 398;
Best Local Similarity 55.0%; Pred. No. 2;
Matches 11; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 LGHSDIYDDKSMKVTVAFN 20
   ||| ||| ||| |||
DB 247 LGADDTYQDKGMLATVAFN 266

; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 41
US-10-354-240-55

Query Match      67.0%; Score 69; DB 12; Length 15;
Best Local Similarity 86.7%; Pred. No. 6.6e-06;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYDDKSMKV 15
   ||| ||||| |||||
DB 1 LGRDDAYSDDKSMKV 15

RESULT 9
US-10-354-240-9
; Sequence 9, Application US/10154240
; Publication No. US2003018547A1
; GENERAL INFORMATION:
; APPLICANT: Sore, Toshio
; APPLICANT: Kume, Akio
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kuro, Katsuo
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis-
; FILE REFERENCE: SPC 10301
; CURRENT APPLICATION NUMBER: US/10/154.240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00147
; PRIOR FILING DATE: 1997-04-15
; PRIOR APPLICATION NUMBER: US 69/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 9
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Crysiomeria japonica
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43
US-10-354-240-57

Query Match      46.6%; Score 46; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFN 10
   ||| ||| |||
DB 1 KSMKVTVAFN 10

RESULT 10
US-10-354-240-57
; Sequence 57, Application US/10154240
; Publication No. US2003018547A1
; GENERAL INFORMATION:
; APPLICANT: Sore, Toshio
; APPLICANT: Kume, Akio
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kuro, Katsuo
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis-
; FILE REFERENCE: SPC 10301
; CURRENT APPLICATION NUMBER: US/10/154.240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00147
; PRIOR FILING DATE: 1997-04-15
; PRIOR APPLICATION NUMBER: US 69/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 57
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Crysiomeria japonica
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43
US-10-354-240-57

Query Match      46.6%; Score 46; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFN 20
   ||| ||| |||
DB 1 KSMKVTVAFN 10

```

```

RESULT 11
US-10-354-240-158
; Sequence 158, Application US/10354240
; Publication No. US20030185847A;
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiyo
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 158
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Figure 7, Row a
US-10-354-240-158

Query Match 46.6%; Score 48; DR 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 KSMKVTVAFN 20
DB 1 KSMKVTVAFN 10

RESULT 12
US-09-847-208-17
; Sequence 17, Application US/09847208
; Publication No. US2003008290A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67-002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208 17

Query Match 46.6%; Score 48; DB 11; Length 397;
Best Local Similarity 50.0%; Pred. No. 9.2;
Matches 10; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 LGHSDIYSDKSKMKTVAFN 20
DB 246 LGASDRHFQDKMHWLAVN 265

RESULT 13
US-10-354-240-54

```

```

; Sequence 54, Application US/10354240
; Publication No. US20030185847A;
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiyo
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO 103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cytol peptide, Figure 1, Row 4b
US-10-354-240-54

Query Match 44.7%; Score 46; DR 12; Length 15;
Best Local Similarity 80.0%; Pred. No. 2.42;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYSD 10
DB 6 LGHSDIYSD 10

RESULT 14
US-09-815-242 11271
; Sequence 11271, Application US/09815242
; Patent No. US2002061563A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Nelson, Zari D.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: PICKASYCOP
; FILE REFERENCE: EXTRA 011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 60/111,074
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/237,707
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/251,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/255,310
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,388
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14117
; SOFTWARE: Fast-SEQ for Windows Version 4.2
; SEQ ID NO 11271
; LENGTH: 950

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; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-815 242-11271
Query Match      43.7%; Score 45; DB 3; Length 950
Best Local Similarity 52.9%; Pred. No. 81
Matches 9; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY      4 SDIYSDKSKMKVTAFN 20
Db      32: SDFVCDKRVHLTAFN 337
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RESULT 15
US-10-156-762-10534
; Sequence 10534; Application US/1015676;
; Publication No. US200301190:8A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204083
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15183
; SEQ ID NO 10534
; LENGTH: 337
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-762-10534
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Query Match      42.7%; Score 44; DB 15; Length 337
Best Local Similarity 50.0%; Pred. No. 35
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
QY      3 HSDIYSDKSKMKVTAFN 20
Db      240 HSDLRARKKSLPVTALN 257
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Search completed: October 23, 2003, 12:01:54  
Job time : 20.75 secs



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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 Seconds  
without alignments.  
74,230 Million cell updates/sec

Title: US-09-202-464-23

Perfect score: 103

Sequence: 1 LGHSDIVSDDKSMKVTVAFN 23

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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4: /cgn2\_6/ptodata/2/1aa/6B\_COWB.pep.\*  
5: /cgn2\_6/ptodata/2/1aa/PCUS\_COWB.pep.\*  
6: /cgn2\_6/ptodata/2/1aa/PCUS\_COWB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	94	91.3	20	3	US-08-467-023-46	Sequence 46, App	
2	94	91.3	50	3	US-08-467-023-69	Sequence 69, App	
3	94	91.3	90	3	US-08-467-023-64	Sequence 64, App	
4	94	91.3	374	3	US-08-467-023-2	Sequence 2, App	
5	90	87.4	367	3	US-08-467-023-95	Sequence 95, App	
6	87	84.5	370	3	US-08-467-023-97	Sequence 97, App	
7	76	73.8	20	3	US-08-467-023-234	Sequence 234, App	
8	76	73.8	22	3	US-08-467-023-128	Sequence 128, App	
9	76	73.8	23	3	US-08-467-023-237	Sequence 237, App	
10	76	73.8	24	3	US-08-467-023-238	Sequence 238, App	
11	60	58.3	17	3	US-08-467-023-240	Sequence 240, App	
12	60	58.3	19	3	US-08-467-023-239	Sequence 239, App	
13	56	54.4	16	3	US-08-467-023-246	Sequence 246, App	
14	56	54.4	17	3	US-08-467-023-241	Sequence 241, App	
15	56	54.4	17	3	US-08-467-023-242	Sequence 242, App	
16	56	54.4	18	3	US-08-467-023-253	Sequence 253, App	
17	56	54.4	19	3	US-08-467-023-227	Sequence 227, App	
18	56	54.4	23	3	US-08-467-023-226	Sequence 226, App	
19	56	54.4	24	3	US-08-467-023-224	Sequence 224, App	
20	56	54.4	30	3	US-08-467-023-221	Sequence 221, App	
21	54	52.4	29	3	US-08-467-023-220	Sequence 220, App	
22	52	50.5	19	3	US-08-467-023-121	Sequence 121, App	
23	52	50.5	19	3	US-08-467-023-122	Sequence 122, App	
24	52	50.5	20	3	US-08-467-023-120	Sequence 120, App	
25	52	50.5	21	3	US-08-467-023-125	Sequence 125, App	
26	52	50.5	21	3	US-08-467-023-231	Sequence 231, App	
27	52	50.5	23	3	US-08-467-023-233	Sequence 233, App	

28	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
29	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
30	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
31	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
32	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
33	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
34	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
35	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
36	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
37	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
38	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
39	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
40	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
41	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
42	52	50.5	191	1	US-08-467-023-45	Sequence 45, App
43	50	48.5	17	3	US-08-467-023-257	Sequence 257, App
44	50	48.5	17	3	US-08-467-023-255	Sequence 255, App
45	49	47.6	16	3	US-08-467-023-256	Sequence 256, App

## ALIGNMENTS

RESULT 1  
US-08-467-023-45  
Sequence 46, Applicant: US-08-467-023-45  
Patent No. 609386  
GENERAL INFORMATION:  
APPLICANT: Griffith, David J.  
APPLICANT: Follock, Jeanne  
APPLICANT: Bond, Gillian F.  
APPLICANT: Gorman, Richard L.  
APPLICANT: Kuo, Wei-Chang  
APPLICANT: Yeung, Siu-Hai  
APPLICANT: Prater, Andrew  
APPLICANT: Ercley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 241  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunological Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St.  
CITY: Walling-  
STATE: WA  
COUNTRY: USA  
ZIP: 98054  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Irv p computer  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Pathwin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/450,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane F. Powell  
REGISTRATION NUMBER: 38,497  
REFERENCE/DOCKET NUMBER: 025,6 US20 (LVI 028CF02)  
TELEPHONE: 1617/ 227-7403  
TELEFAX: 1617/ 227-5941  
INFORMATION FOR SEQ ID NO. 46:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal



```

? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 225.6 US2 (IM: 028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 2:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 374 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-467-023-2

```

```

Query Match 91.3%; Score 94; DR 3; Length 374;
Best Local Similarity 90.0%; Pred. No. 4.1e-04;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYSDDKSMKVTVAFN 20
DB 222 LGHDDAYSDDKSMKVTVAFN 241

```

```

RESULT 5
US-08-467-023-95
? Sequence 95, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffiths, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk

```

```

? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 225.6 US2 (IM: 028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 367 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-467-023-95

Query Match 87.4%; Score 90; DR 3; Length 367;
Best Local Similarity 85.0%; Pred. No. 1.9e-07;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LGHSDIYSDDKSMKVTVAFN 77
DB 222 LGHDDAYSDDKSMKVTVAFN 241

RESULT 6
US-08-467-023-07
? Sequence 97, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffiths, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872

```

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CFD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7430

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 97:

SEQUENCE CHARACTERISTICS:

LENGTH: 370 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-467-023-57

Query Match

Best Local Similarity 84.58; Score 87; DB 3; Length 370;

Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYSDKSMKVTVAFN 20

Db 222 LGHSDSPSDKMKVTVAFN 241

RESULT 7

US-08-467-023-234

Sequence 234, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CFD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 234:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-234

Query Match 73.83; Score 76; DB 3; Length 20;

Best Local Similarity 93.83; Pred. No.: 70.06;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 DIYSDKSMKVTVAFN 20

Db 2 DIYSDKSMKVTVAFN 17

RESULT 8

US-08-467-023-128

Sequence 128, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CFD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 128:

SEQUENCE CHARACTERISTICS:

LENGTH: 22 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-128

Query Match

Best Local Similarity 93.83; Pred. No.: 70.06;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 DIYSDKSMKVTVAFN 20

Db 2 DIYSDKSMKVTVAFN 17

RESULT 9

US-08-467-023-237

Sequence 237, Application US/08467023

```

; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-024CP02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 237:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FRAGMENT TYPE: Internal
; US-08-467-023-237

Query Match 73.8%; Score 76; PB 1; Length 23;
Best Local Similarity 93.8%; Pred. No. 1.8e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 DIYSDKSKMKVTVAFN 20
Db 2 DAYSDKSKMKVTVAFN 17

RESULT 10
US-08-467-023-238
; Sequence 238, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From

```

```

; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025,6 USD2 (IM1-024CP02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 238:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FRAGMENT TYPE: Internal
; US-08-467-023-238

Query Match 93.9%; Score 76; PB 3; Length 24;
Best Local Similarity 93.9%; Pred. No. 1.9e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 DIYSDKSKMKVTVAFN 20
Db 3 DAYSDKSKMKVTVAFN 18

RESULT 11
US-08-467-023-240
; Sequence 240, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

```

/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 JSD2 (INT: 028CPD2)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 240:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/ US-08-467-023-240

Query Match      58.3%; Score 60; FR 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.00067;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

CY      9 DDKSMKVTVAEN 20
DB      2 DDKSMKVTVAEN 13
      |||||
RESULT 12
US-08-467-023-239
/ Sequence 239, Application US/28467023
/ Patent No. 6090386
/ GENERAL INFORMATION:
/ APPLICANT: Griffith, Irwin J.
/ APPLICANT: Pollock, Joanne;
/ APPLICANT: Bond, Julian F.;
/ APPLICANT: Garman, Richard D.;
/ APPLICANT: Kuo, Mei-Chang;
/ APPLICANT: Yeung, Siu-mei H.;
/ APPLICANT: Brauer, Andrew;
/ APPLICANT: Exley, Mark A.;
/ APPLICANT: Powers, Steven P.;
/ TITLE OF INVENTION: Allergenic Proteins And Peptides From
/ NUMBER OF SEQUENCES: 261
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
/ STREET: 610 Lincoln St
/ CITY: Waltham
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02154
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872

```

```

/ REFERENCE/DOCKET NUMBER: 025.6 JSD2 (INT: 028CPD2)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 240:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 19 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/ US-08-467-023-240

Query Match      58.3%; Score 60; FR 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.00077;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

CY      9 DDKSMKVTVAEN 20
DB      2 DDKSMKVTVAEN 13
      |||||
RESULT 13
US-08-467-023-240
/ Sequence 246, Application US/28467023
/ Patent No. 6090386
/ GENERAL INFORMATION:
/ APPLICANT: Griffith, Irwin J.
/ APPLICANT: Pollock, Joanne;
/ APPLICANT: Bond, Julian F.;
/ APPLICANT: Garman, Richard D.;
/ APPLICANT: Kuo, Mei-Chang;
/ APPLICANT: Yeung, Siu-mei H.;
/ APPLICANT: Brauer, Andrew;
/ APPLICANT: Exley, Mark A.;
/ APPLICANT: Powers, Steven P.;
/ TITLE OF INVENTION: Allergenic Proteins And Peptides From
/ NUMBER OF SEQUENCES: 261
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
/ STREET: 610 Lincoln St
/ CITY: Waltham
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02154
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 JSD2 (INT: 028CPD2)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 246:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 16 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/ US-08-467-023-246

```

Query Match 54.4%; Score 56; DB 3; Length 16;  
 Best Local Similarity 91.7%; Pred. No. 0.003;  
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 9 CDKSMKVTVAEN 20  
 DB 4 EDKSMKVTVAEN 15

## RESULT 14

US-08-467-023-241  
 ; Sequence 241, Application US/08467023  
 ; Patent No. 6590386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D.;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; NUMBER OF SEQUENCES: 261  
 ; CORRESPONDENCE ADDRESS:  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/467.023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350.225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-028CP02)  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 241:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal  
 ; US-08-467-023-241

Query Match 54.4%; Score 56; DB 3; Length 17;  
 Best Local Similarity 91.7%; Pred. No. 0.003;  
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 9 CDKSMKVTVAEN 20  
 DB 2 EDKSMKVTVAEN 13

## RESULT 15

US-08-467-023-242

; Sequence 242, Application US/08467023  
 ; Patent No. 6590386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D.;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; NUMBER OF SEQUENCES: 261  
 ; CORRESPONDENCE ADDRESS:  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/467.023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350.225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-028CP02)  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 242:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal  
 ; US-08-467-023-242

Query Match 54.4%; Score 56; DB 3; Length 17;  
 Best Local Similarity 91.7%; Pred. No. 0.003;  
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 9 CDKSMKVTVAEN 20  
 DB 2 EDKSMKVTVAEN 13

Search completed: October 23, 2003, 09:55:10  
 Job time : 11.4 secs









Query Match 75.7%; Score 78; DB 12; Length 15;  
Best Local Similarity 100.0%; Pred. No. 6.7e-07;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KSMKVTVAFNQFGPN 15  
DB 1 KSMKVTVAFNQFGPN 15

## RESULT 7

US-10-354-240-158  
Sequence 158, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akimori  
APPLICANT: Daijiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 158  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptosporidia japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)..(15)  
OTHER INFORMATION: Figure 7, Row a  
US-10-354-240-158

Query Match 75.7%; Score 78; DB 12; Length 15;  
Best Local Similarity 100.0%; Pred. No. 6.7e-07;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KSMKVTVAFNQFGPN 15  
DB 1 KSMKVTVAFNQFGPN 15

## RESULT 8

US-10-354-240-58  
Sequence 58, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akimori  
APPLICANT: Daijiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 58  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptosporidia japonica

FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)..(15)  
OTHER INFORMATION: Crystal structure, Figure 1, Row 44  
US-10-354-240-58

Query Match 73.8%; Score 76; DB 12; Length 15;  
Best Local Similarity 93.3%; Pred. No. 1.5e-06;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 6 TVAFNQGFGNAGQGV 10  
DB 1 TVAFNQGFGNAGQGV 10

## RESULT 9

US-10-354-240-10  
Sequence 10, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akimori  
APPLICANT: Daijiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 10  
LENGTH: 32  
TYPE: PRT  
ORGANISM: Cryptosporidia japonica  
US-10-354-240-10

Query Match 69.0%; Score 70; DB 12; Length 32;  
Best Local Similarity 84.7%; Pred. No. 3.3e-06;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KSMKVTVAFNQFGPN 14  
DB 18 KSMKVTVAFNQFGPN 32

## RESULT 10

US-10-354-240-1  
Sequence 1, Application US/10354240  
Publication No. US20030185847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akimori  
APPLICANT: Daijiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103D1  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/142,524  
PRIOR FILING DATE: 1998-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 1  
LENGTH: 40  
TYPE: PRT



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; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: US67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match      50.5%; Score 52; DB 11; Length 196;
Best Loca: Similarity 55.0%; Pred. No. 2.85;
Matches 11; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY      : KSMKVTVAFNQFGPNAGQRM 20
          : |||||
DB      255 RGLATVAFNFTFDNVQPM 274
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Search completed: October 23, 2003, 11:01:55  
Job time : 20.75 secs

GenCore version: 5.1.6  
Copyright (c) 1993 2003 Computer Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 Seconds  
(without alignments)  
34,210 Million cell updates/sec

Title: US-09-202-464-24

Perfect score: 103

Sequence: 1 KSMKVIVAFNQFGPNACRM 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 4210858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*  
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2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PGTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	367	3	US-08-467-023-95
2	100	97.1	24	3	Sequence 35, App.
3	100	97.1	26	3	Sequence 224, App.
4	100	97.1	28	3	Sequence 81, App.
5	100	97.1	28	3	Sequence 85, App.
6	100	97.1	28	3	Sequence 219, App.
7	100	97.1	29	3	Sequence 223, App.
8	100	97.1	29	3	Sequence 220, App.
9	100	97.1	30	3	Sequence 222, App.
10	100	97.1	30	3	Sequence 80, Appl
11	99	96.1	20	3	Sequence 221, App
12	99	96.1	26	3	Sequence 47, Appl
13	99	96.1	26	3	Sequence 83, Appl
14	99	96.1	28	3	Sequence 86, Appl
15	99	96.1	28	3	Sequence 81, Appl
16	99	96.1	28	3	Sequence 82, Appl
17	99	96.1	30	3	Sequence 217, App
18	99	96.1	36	3	Sequence 79, Appl
19	99	96.1	50	3	Sequence 78, Appl
20	99	96.1	90	3	Sequence 69, Appl
21	99	96.1	374	3	Sequence 64, Appl
22	97	94.2	26	3	Sequence 22, Appl
23	97	94.2	26	3	Sequence 228, App
24	96	93.2	23	3	Sequence 223, App
25	95	92.2	23	3	Sequence 225, App
26	95	92.2	28	3	Sequence 226, App
27	92	89.3	26	3	Sequence 218, App
					Sequence 232, App

Sequence 131, App  
Sequence 213, App  
Sequence 223, App  
Sequence 236, App  
Sequence 230, App  
Sequence 231, App  
Sequence 214, App  
Sequence 17, Appl  
Sequence 123, App  
Sequence 123, App  
Sequence 123, App  
Sequence 124, App  
Sequence 124, App  
Sequence 124, App  
Sequence 124, App  
Sequence 251, App  
Sequence 216, App  
Sequence 231, App

#### SEQUENCES

RESULT 1  
US-08-467-023-95  
Sequence 35, Application US/06-44713-  
Patent No. 609384  
GENERAL INFORMATION  
APPLICANT: Griffith, Edwin J.  
APPLICANT: Pollock, Thomas  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard G.  
APPLICANT: Koo, Yei-Chang  
APPLICANT: Yeung, Shu-ai Hui  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven F.  
TITLE OF INVENTION: Antisense Proteins And Peptides From  
TITLE OF INVENTION: Japanese O-147 P-110  
NUMBER OF SEQUENCES: 241  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St.  
CITY: Walpole  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08-467-023  
FILING DATE: June 6, 1996  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 58750,224  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jace F. Romilard  
REGISTRATION NUMBER: 34,872  
REFERENCE/DOCKET NUMBER: 024, 6 US02 11M1 028CP02;  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 1617 227 7470  
TELEFAX: 1617 227 5941  
INFORMATION FOR SEQ ID NO:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
VCLIQUE TYPE: prolein  
US-08-467-023-95

Query Match: 100.0%; Score 103; CR 3; Length 367;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAHQFGNAGCRM 20  
 |||||.....  
 Db 232 KSMKVTVAHQFGNAGCRM 25:

## RESULT 2

US-08-467-023-224  
 ? Sequence 224, Application US/08467023  
 ? Patent No. 6090386  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Griffith, Irwin J.;  
 ? APPLICANT: Pollock, Joanne;  
 ? APPLICANT: Bond, Julian F.;  
 ? APPLICANT: Garman, Richard D.;  
 ? APPLICANT: Kuo, Mei-Chang;  
 ? APPLICANT: Yeung, Siu-mei H.;  
 ? APPLICANT: Brauer, Andrew;  
 ? APPLICANT: Exley, Mark A.;  
 ? APPLICANT: Powers, Steven P.  
 ? TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ? TITLE OF INVENTION: Japanese Cedar Pollen  
 ? NUMBER OF SEQUENCES: 261  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ? STREET: 610 Lincoln St  
 ? CITY: Waltham  
 ? STATE: MA  
 ? COUNTRY: USA  
 ? ZIP: 02154  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS DOS  
 ? SOFTWARE: Patent Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/467,023  
 ? FILING DATE: June 6, 1995  
 ? CLASSIFICATION: 424  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: 08/350,225  
 ? FILING DATE: December 6, 1994  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Jane E. Reillard  
 ? REGISTRATION NUMBER: 38,872  
 ? REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM-0284702)  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617) 227-7400  
 ? TELEFAX: (617) 227-5941  
 ? INFORMATION FOR SEQ ID NO: 224:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 24 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: peptide  
 ? FRAGMENT TYPE: internal  
 ? US-08-467-023-224

Query Match: 97.1%; Score 100; DB 3; Length 24;  
 Best Local Similarity 95.0%; Pred. No. 2.8e-11;  
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAHQFGNAGCRM 20  
 |||||.....  
 Db 3 KSMKVTVAHQFGNAGCRM 22

## RESULT 3

US-08-467-023-24

? Sequence 24, Application US/08467024  
 ? Patent No. 6090386  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Griffith, Irwin J.;  
 ? APPLICANT: Pollock, Joanne;  
 ? APPLICANT: Bond, Julian F.;  
 ? APPLICANT: Garman, Richard D.;  
 ? APPLICANT: Kuo, Mei-Chang;  
 ? APPLICANT: Yeung, Siu-mei H.;  
 ? APPLICANT: Brauer, Andrew;  
 ? APPLICANT: Exley, Mark A.;  
 ? APPLICANT: Powers, Steven P.  
 ? TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ? TITLE OF INVENTION: Japanese Cedar Pollen  
 ? NUMBER OF SEQUENCES: 261  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ? STREET: 610 Lincoln St  
 ? CITY: Waltham  
 ? STATE: MA  
 ? COUNTRY: USA  
 ? ZIP: 02154  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS DOS  
 ? SOFTWARE: Patent Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/467,024  
 ? FILING DATE: June 6, 1995  
 ? CLASSIFICATION: 424  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: 08/350,224  
 ? FILING DATE: December 6, 1994  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Jane E. Reillard  
 ? REGISTRATION NUMBER: 38,872  
 ? REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM-0284702)  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617) 227-7400  
 ? TELEFAX: (617) 227-5941  
 ? INFORMATION FOR SEQ ID NO: 24:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 24 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: peptide  
 ? FRAGMENT TYPE: internal  
 ? US-08-467-023-24

Query Match: 97.1%; Score 100; DB 3; Length 26;  
 Best Local Similarity 95.0%; Pred. No. 1.8e-11;  
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAHQFGNAGCRM 20  
 |||||.....  
 Db 1 KSMKVTVAHQFGNAGCRM 20

## RESULT 4

US-08-467-023-25  
 ? Sequence 25, Application US/08467025  
 ? Patent No. 6090386  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Griffith, Irwin J.;  
 ? APPLICANT: Pollock, Joanne;  
 ? APPLICANT: Bond, Julian F.;  
 ? APPLICANT: Garman, Richard D.;  
 ? APPLICANT: Kuo, Mei-Chang;  
 ? APPLICANT: Yeung, Siu-mei H.;  
 ? APPLICANT: Brauer, Andrew;  
 ? APPLICANT: Exley, Mark A.;  
 ? APPLICANT: Powers, Steven P.

```

? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: C8/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION/DOCKET NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-026CFP2)
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 85:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 28 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-C23-85

Query Match 97.1% Score 100; DP 3; Length 28;
Best Local Similarity 95.0%; Pred. No. 3,3e-11;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Cy 1 KSMKVTVAFNQGFNSQRM 20
Db : KSMKVTVAFNQGFNSQRM 20
:|||||
:|||||

RESULT 5
US-08-467-023-219
? Sequence 219, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian P.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard

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? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION/DOCKET NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-026CFP2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 85:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 28 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-C23-219

Query Match 97.1% Score 100; DP 3; Length 28;
Best Local Similarity 95.0%; Pred. No. 3,3e-11;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Cy 1 KSMKVTVAFNQGFNSQRM 20
Db : KSMKVTVAFNQGFNSQRM 20
:|||||
:|||||

RESULT 6
US-08-467-023-223
? Sequence 223, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian P.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard

```



REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (MT-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 223:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-223

Query Match 97.1% Score 100; DP 3; Length 28;  
Best Local Similarity 95.0%; Pctd No. 3, 9e-11;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNCFGPNAGCRM 20  
DB 1 KSMKVTVAFNCFGPNAGCRM 20

RESULT 7  
US-08-467-023-220  
Sequence 220, Application US/08467023  
Patent No. 6390386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides from  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 26;  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (MT-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 220:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 29 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-220  
Query Match 97.1% Score 100; DP 3; Length 28;  
Best Local Similarity 95.0%; Pctd No. 3, 9e-11;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNCFGPNAGCRM 20  
DB 2 KSMKVTVAFNCFGPNAGCRM 20

RESULT 8  
US-08-467-023-222  
Sequence 222, Application US/08467022  
Patent No. 6390386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides from  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 26;  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (MT-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 222:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 29 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-222

Query Match 97.1% Score 100; DP 3; Length 28;  
Best Local Similarity 95.0%; Pctd No. 3, 9e-11;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNCFGPNAGCRM 20  
DB 2 KSMKVTVAFNCFGPNAGCRM 21

RESULT 9

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US-08-467-023-80
; Sequence 80, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7480
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 80:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-80

Query Match 97.1%; Score 100; DB 3; Length 30;
Best Local Similarity 95.0%; Pred. No. 3.6e-11;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPNAGQRM 20
Db 1 KSMKVTVAFNQFGPNAGQRM 20

RESULT 10
US-08-467-023-221
; Sequence 221, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:

```

```

; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7480
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 221:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-221

Query Match 97.1%; Score 100; DB 3; Length 30;
Best Local Similarity 95.0%; Pred. No. 3.6e-11;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPNAGQRM 20
Db 3 KSMKVTVAFNQFGPNAGQRM 22

RESULT 11
US-08-467-023-47
; Sequence 47, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:

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1 MEDIUM TYPE: Floppy disk
2 COMPUTER: IBM PC compatible
3 OPERATING SYSTEM: PC-DOS/MS-DOS
4 SOFTWARE: Patent In Release #1.0, Version #1.25
5 CURRENT APPLICATION DATA:
6 APPLICATION NUMBER: US/08/467,023
7 FILING DATE: June 6, 1995
8 CLASSIFICATION: 424
9 PRIOR APPLICATION DATA:
10 APPLICATION NUMBER: 08/350,225
11 FILING DATE: December 6, 1994
12 ATTORNEY/AGENT INFORMATION:
13 NAME: Jane E. Remillard
14 REGISTRATION NUMBER: 38,872
15 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IMJ-028CFD2)
16 TELECOMMUNICATION INFORMATION:
17 TELEPHONE: (617) 227-7400
18 TELEFAX: (617) 227-5941
19 INFORMATION FOR SEQ ID NO: 47:
20 SEQUENCE CHARACTERISTICS:
21 LENGTH: 26 amino acids
22 TYPE: amino acid
23 TOPOLOGY: linear
24 MOLECULE TYPE: peptide
25 FRAGMENT TYPE: internal
26
27 US-08-467-023-47
28
29 Query Match 96.1%; Score 99; NG 3; Length 26;
30 Best Local Similarity 95.0%; Pred. NO. 3.4e 11;
31 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
32
33 QY 1 KSMKVTVAENQFGPNAGQRY 20
34 Db 1 KSMKVTVAENQFGPNAGQRY 20
35
36 RESULT 12
37 US-08-467-023-83
38 Sequence 83, Application US/08457023
39 Patent No. 6090386
40 GENERAL INFORMATION:
41 APPLICANT: Griffith, Irwin J.;
42 APPLICANT: Pollock, Joanne;
43 APPLICANT: Bond, Julian F.;
44 APPLICANT: Garman, Richard D.;
45 APPLICANT: Kuo, Mei-Chang;
46 APPLICANT: Yeung, Siu-mei H.;
47 APPLICANT: Brauer, Andrew;
48 APPLICANT: Exley, Mark A.;
49 APPLICANT: Powers, Steven P.;
50 TITLE OF INVENTION: Allergenic Proteins And Peptides From
51 TITLE OF INVENTION: Japanese Cedar Pollen
52 NUMBER OF SEQUENCES: 261
53 CORRESPONDENCE ADDRESS:
54 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
55 STREET: 610 Lincoln St.
56 CITY: Waltham
57 STATE: MA
58 COUNTRY: USA
59 ZIP: 02154
60 COMPUTER READABLE FORM:
61 MEDIUM TYPE: Floppy disk
62 COMPUTER: IBM PC compatible
63 OPERATING SYSTEM: PC-DOS/MS-DOS
64 SOFTWARE: Patent In Release #1.0, Version #1.25
65 CURRENT APPLICATION DATA:
66 APPLICATION NUMBER: US/08/467,023
67 FILING DATE: June 6, 1995
68 CLASSIFICATION: 424
69 PRIOR APPLICATION DATA:
70 APPLICATION NUMBER: 08/350,225
71 FILING DATE: December 6, 1994
72 ATTORNEY/AGENT INFORMATION:
73 NAME: Jane E. Remillard
74 REGISTRATION NUMBER: 38,872
75 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IMJ-028CFD2)
76 TELECOMMUNICATION INFORMATION:
77 TELEPHONE: (617) 227-7400
78 TELEFAX: (617) 227-5941
79 INFORMATION FOR SEQ ID NO: 86:
80 SEQUENCE CHARACTERISTICS:
81 LENGTH: 26 amino acids
82 TYPE: amino acid
83 TOPOLOGY: linear
84 MOLECULE TYPE: peptide
85 ATTORNEY/AGENT INFORMATION:

```

```

1 NAME: Jane E. Remillard
2 REGISTRATION NUMBER: 38,872
3 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IMJ-028CFD2)
4 TELECOMMUNICATION INFORMATION:
5 TELEPHONE: (617) 227-7400
6 TELEFAX: (617) 227-5941
7 INFORMATION FOR SEQ ID NO: 47:
8 SEQUENCE CHARACTERISTICS:
9 LENGTH: 26 amino acids
10 TYPE: amino acid
11 TOPOLOGY: linear
12 MOLECULE TYPE: peptide
13 FRAGMENT TYPE: internal
14
15 US-09-467-023-83
16
17 Query Match 96.1%; Score 99; NG 3; Length 26;
18 Best Local Similarity 95.0%; Pred. NO. 3.4e 11;
19 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
20
21 QY 1 KSMKVTVAENQFGPNAGQRY 20
22 Db 1 KSMKVTVAENQFGPNAGQRY 20
23
24 RESULT 13
25 US-08-467-023-86
26 Sequence 86, Application US/08467023
27 Patent No. 6090386
28 GENERAL INFORMATION:
29 APPLICANT: Griffith, Irwin J.;
30 APPLICANT: Pollock, Joanne;
31 APPLICANT: Bond, Julian F.;
32 APPLICANT: Garman, Richard D.;
33 APPLICANT: Kuo, Mei-Chang;
34 APPLICANT: Yeung, Siu-mei H.;
35 APPLICANT: Brauer, Andrew;
36 APPLICANT: Exley, Mark A.;
37 APPLICANT: Powers, Steven P.;
38 TITLE OF INVENTION: Allergenic Proteins And Peptides From
39 TITLE OF INVENTION: Japanese Cedar Pollen
40 NUMBER OF SEQUENCES: 261
41 CORRESPONDENCE ADDRESS:
42 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
43 STREET: 610 Lincoln St.
44 CITY: Waltham
45 STATE: MA
46 COUNTRY: USA
47 ZIP: 02154
48 COMPUTER READABLE FORM:
49 MEDIUM TYPE: Floppy disk
50 COMPUTER: IBM PC compatible
51 OPERATING SYSTEM: PC-DOS/MS-DOS
52 SOFTWARE: Patent In Release #1.0, Version #1.25
53 CURRENT APPLICATION DATA:
54 APPLICATION NUMBER: US/08/467,023
55 FILING DATE: June 6, 1995
56 CLASSIFICATION: 424
57 PRIOR APPLICATION DATA:
58 APPLICATION NUMBER: 08/350,225
59 FILING DATE: December 6, 1994
60 ATTORNEY/AGENT INFORMATION:
61 NAME: Jane E. Remillard
62 REGISTRATION NUMBER: 38,872
63 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IMJ-028CFD2)
64 TELECOMMUNICATION INFORMATION:
65 TELEPHONE: (617) 227-7400
66 TELEFAX: (617) 227-5941
67 INFORMATION FOR SEQ ID NO: 86:
68 SEQUENCE CHARACTERISTICS:
69 LENGTH: 26 amino acids
70 TYPE: amino acid
71 TOPOLOGY: linear
72 MOLECULE TYPE: peptide

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; FRAGMENT TYPE: internal
US-08-467-023-86
Query Match 96.1%; Score 99; DB 1; Length 28;
Best Local Similarity 95.0%; Pred. No. 4,56-11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFGPGNCGORM 20
DB 1 KSMKVTVAFGPGNCGORM 20

RESULT 14
US-08-467-023-81
; Sequence #1, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Jeanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT: 025CPCD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 81:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-81
Query Match 96.1%; Score 99; DB 1; Length 28;
Best Local Similarity 95.0%; Pred. No. 56-11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFGPGNCGORM 20
DB 1 KSMKVTVAFGPGNCGORM 20

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RESULT 15
US-08-467-023-82
; Sequence #2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Jeanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT: 025CPCD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-82
Query Match 96.1%; Score 99; DB 1; Length 28;
Best Local Similarity 95.0%; Pred. No. 56-11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFGPGNCGORM 20
DB 1 KSMKVTVAFGPGNCGORM 20

Search completed: October 23, 2003, 09:55:31
Job time : 12.4 sec

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.  
OM protein - protein search, using sw model  
Run on: October 23, 2003, 09:50:14 ; Search time 13.75 seconds  
(without alignments)  
169,580 Million cell updates/sec

Title: US-09-202-464-25  
Perfect score: 109  
Sequence: 1 QFGNAGQMPARYGLIHV 20

Scoring table: Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/1/pubaa/US07\_PUBCOMB.pep:  
2: /cgn2\_6/ptodata/1/pubaa/ECT\_NEW\_PUB.pep:  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep:  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep:  
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6: /cgn2\_6/ptodata/1/pubaa/PTCIS\_PUBCOMB.pep:  
7: /cgn2\_6/ptodata/1/pubaa/US08\_NEW\_PUB.pep:  
8: /cgn2\_6/ptodata/1/pubaa/US08\_PUBCOMB.pep:  
9: /cgn2\_6/ptodata/1/pubaa/US09A\_PUBCOMB.pep:  
10: /cgn2\_6/ptodata/1/pubaa/US09B\_PUBCOMB.pep:  
11: /cgn2\_6/ptodata/1/pubaa/US09C\_PUBCOMB.pep:  
12: /cgn2\_6/ptodata/1/pubaa/US09\_NEW\_PUB.pep:  
13: /cgn2\_6/ptodata/1/pubaa/US10A\_PUBCOMB.pep:  
14: /cgn2\_6/ptodata/1/pubaa/US10B\_PUBCOMB.pep:  
15: /cgn2\_6/ptodata/1/pubaa/US10C\_PUBCOMB.pep:  
16: /cgn2\_6/ptodata/1/pubaa/US10\_NEW\_PUB.pep:  
17: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep:  
18: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES				
Result No.	Score	Query Match	ID	Description
1	109	100.0	375	11 US-09-847-208-58
2	108	99.1	346	11 US-09-847-208-67
3	108	99.1	367	11 US-09-847-208-109
4	104	95.4	374	11 US-09-847-208-68
5	79	72.5	15	12 US-10-354-240-59
6	74	67.9	15	12 US-10-354-240-60
7	55	50.5	340	11 US-09-834-231-1
8	55	50.5	367	11 US-09-834-231-5
9	55	50.5	369	11 US-09-834-231-7
10	55	50.5	383	11 US-09-834-231-3
11	54	49.5	369	11 US-09-834-231-2
12	53	48.6	15	12 US-10-354-240-61
13	53	48.6	159	11 US-09-832-877-291
14	53	48.6	159	11 US-09-848-783-303
15	53	48.6	397	11 US-09-847-208-15

16	52	47.7	396	11 US-09-847-208-13	Sequence 13, Appl
17	51	46.8	15	12 US-10-354-240-39	Sequence 58, Appl
18	50	45.9	397	11 US-09-847-208-16	Sequence 16, Appl
19	50	45.9	399	12 US-10-403-192-17	Sequence 17, Appl
20	50	45.9	420	12 US-10-326-155-87	Sequence 87, Appl
21	48	44.0	398	11 US-09-847-208-14	Sequence 14, Appl
22	45	41.3	198	15 US-10-156-761-1661	Sequence 1661, A
23	44	40.4	474	12 US-10-191-139-11	Sequence 11, Appl
24	44	40.4	476	15 US-10-384-094-11	Sequence 11, Appl
25	43	39.4	573	14 US-10-060-841-3	Sequence 3, Appl
26	42.5	39.0	335	15 US-10-032-585-7617	Sequence 7617, Ap
27	42.5	39.0	346	15 US-10-146-772-332	Sequence 332, Ap
28	41	37.6	230	12 US-10-048-618-80	Sequence 80, Appl
29	41	37.6	238	5 US-09-764-553-552	Sequence 553, Appl
30	41	37.6	337	11 US-09-847-208-17	Sequence 17, Appl
31	41	37.6	473	15 US-10-156-761-11243	Sequence 11243, A
32	41	37.6	829	9 US-09-792-127-5	Sequence 5, Appl
33	41	37.6	947	15 US-10-178-714-9064	Sequence 9064, Ap
34	41	37.6	1012	12 US-10-046-6718-77	Sequence 77, Appl
35	41	37.6	1017	12 US-10-046-6718-78	Sequence 78, Appl
36	41	37.6	1012	12 US-10-046-6718-79	Sequence 79, Appl
37	40.5	37.2	278	10 US-09-738-626-5608	Sequence 5608, Ap
38	40.5	37.2	951	12 US-10-179-616-8	Sequence 8, Appl
39	40.5	37.2	1420	12 US-10-379-616-4	Sequence 4, Appl
40	40	36.7	132	11 US-09-999-121-2	Sequence 2, Appl
41	40	36.7	263	12 US-10-029-386-32236	Sequence 32236, A
42	40	36.7	345	15 US-10-156-761-13726	Sequence 13726, A
43	40	36.7	476	10 US-09-880-739-10	Sequence 10, Appl
44	40	36.7	587	12 US-10-161-319-2	Sequence 2, Appl
45	40	36.7	956	5 US-09-797-127-4	Sequence 4, Appl

# REMARKS

RESULT 1  
US-09-847-208-58  
Publication No. US20030042100A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IMMEDIATELY ALLERGIC DISEASES  
FILE REFERENCE: US03/052A  
CURRENT FILING DATE: US/03/047,008  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 58  
TYPE: PRT  
LENGTH: 375  
ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-58

Query Match				
Best Local Similarity	100.0%	Score 109	FR 11	Length 396
Matches	20	Conservative	0	Mis-matches 0
OY 1 QFGNAGQMPARYGLIHV 20				
Db 242 QFGNAGQMPARYGLIHV 241				
RESULT 2				
US-09-847-208-67				
Publication No. US0304770A				
GENERAL INFORMATION:				
APPLICANT: Saxon, Andrew				
APPLICANT: Zhang, Ke				
APPLICANT: Zhu, Daosheng				

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; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.238
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 67
; LENGTH: 346
; TYPE: PR1
; ORGANISM: Cupressus arizonica
US-09-847-238.67

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Query Match: 99.1%; Score 108; DB 11; Length 344;  
Best Local Similarity 95.0%; Pred. No. 2.7e-69;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY : QFGPNAGQMPRARYGLTHV 20
    |||::|||:|||::
QB 221 QFGPNAGQMPRARYGLTHV 240
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RESULT 3  
US-09-847-208-109  
; Sequence 109, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:

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Query Match: 99.1%; Score 108; DB 1; Length: 187;
Best Local Similarity 95.0%; Pred. No. 2.9e-04;
Matches 13; Conservative 1; Mismatches 3; Gaps 0;
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QY      1 QFGFNAGQRYPRARYGLIHV 20  
        i'iiiii'.iiii'i:  
Db     242 QFGFNAGQRYPRARYGLVHV 261
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RESULT: 4
US-09-847-208 68
; Sequence 68: Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxcn, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT
; FILE REFERENCE: US/09-847-208
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptosporidia japonica (Japanese cedar);
US-09-847-208:68

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```

Query Match      95.4%      Score 104.11      E-Val 374.
Best Local Similarity 95.5%      Pos 130.18      Neg 1.04
Matches 16; Conservative 1; Mismatches 17; Indels 0; Gaps 0.
QY      : QFENAGCGMREPRARYNIHLY 10
          | | | | | | | |
DF 242  QFENCGCMREPRARYNIHLY 10

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QY	: QCPNAGCORMPRAPYCHIVV	242
DB	: QCPNAGCORMPRAPYCHIVV	242

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1  RESULT 5
2  US-10-354-240-59
3  ? Sequence 59, Application Number 4949
4  ? Publication No. US2004016441A1
5  ? GENERAL INFORMATION
6  ?
7  ? APPLICANT: SONY, TOKIO
8  ? APPLICANT: Kamei, Akimichi
9  ? APPLICANT: Oariki, Kazuo
10 ? APPLICANT: Iwata, Akiko
11 ? APPLICANT: Kato, Kousuke
12 ? TITLE OF INVENTION: Patent Based on the Japanese Agent for Treating Adipocyte Tissue
13 ? FILE REFERENCE: JP2003-041041
14 ? CURRENT APPLICATION NUMBER: 2004-014149
15 ? CURRENT FILING DATE: 2004-01-29
16 ? PRIOR APPLICATION NUMBER: JP2002-042742
17 ? PRIOR FILING DATE: 1997-03-10
18 ? PRIOR APPLICATION NUMBER: US 09/142,624
19 ? PRIOR FILING DATE: 1999-07-09
20 ? NUMBER OF SEQ ID NOS: 174
21 ? SOFTWARE: Patent in version 3.1
22 ? SEQ ID NO 59
23 ? LENGTH: 15
24 ? TYPE: PRT
25 ? ORGANISM: Cryptosporidia japonica
26 ? FEATURE:
27 ? NAME/KEY: MISC FEATURE
28 ? LOCATION: 11..115
29 ? OTHER INFORMATION: Cryptosporidia, Feature 1, Row 45
30 ? US-10-354-240-59

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Query Match	72.83	Score 79	CH 12	Length 15
Best Local Similarity	91.48	Prod No. 4	66.92	
Matches 14	Conservative 10	Of 14	Matches 14	Indels 0
				Inserts 0

QY	1	QYGNAGGCMRPRAY	15
DE	1	DEGNPNCGCMRPRAY	15

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1  RESULT 4
2  US-10-354-242 60
3  Sequence 60, Application US-1034426
4  Publication No. US2001014584A1
5  GENERAL INFORMATION:
6  APPLICANT: Sono, Toshiro
7  APPLICANT: Kure, Akinori
8  APPLICANT: Dairiki, Kazuo
9  APPLICANT: Iwama, Akiho
10 APPLICANT: Kikuo, Kenzo
11 TITLE OF INVENTION: Peptide-Based
12 FILE REFERENCE: SEQ ID#1
13 CURRENT APPLICATION NUMBER: US1034426
14 PRIORITY FILING DATE: 2000-01-29
15 PRIOR APPLICATION NUMBER: PCT/JP99/07
16 PRIORITY FILING DATE: 1997-01-10
17 PRIOR APPLICATION NUMBER: US 09/112
18 PRIORITY FILING DATE: 1998-09-09
19 NUMBER OF SEQ ID NOS: 14
20 SOFTWARE: PatentIn version 3.1
21 SEQ ID NO 60
22 LENGTH: 15
23 TYPE: PRT
24 ORGANISM: Crytomera japonica
25 FEATURE:

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; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 46
US-10-354-240-60

Query Match      67.9%; Score 74; DB 12; Length 16;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 7 GORMPRARYGLIHV 20
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Db 2 GORMPRARYGLIHV 15

RESULT 7
US-09-834-231-1
; Sequence 1, Application US/09834231;
; Publication No. US2003008745A1
; GENERAL INFORMATION:
; APPLICANT: Bjornvad, Mads
; APPLICANT: Andersen, Jens
; APPLICANT: Kongsbak, Lars
; APPLICANT: Schuilein, Martin
; TITLE OF INVENTION: EXTRACELLULAR EXPRESSION OF PEPTATE LYASE USING BACILLUS OF ESCH
; FILE REFERENCE: 10003.200-US
; CURRENT APPLICATION NUMBER: US/09/834.231
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Thermotoga maritima
US-09-834-231-1

Query Match      50.5%; Score 55; DB 11; Length 340;
Best Local Similarity 62.5%; Pred. No. 0.85;
Matches 10; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 5 NAGQMPRARYGLIHV 20
    ||||| |||||
Db 193 NCIQMPRIREFGMHV 208

RESULT 8
US-09-834-231-5
; Sequence 5, Application US/09834231;
; Publication No. US2003008745A1
; GENERAL INFORMATION:
; APPLICANT: Bjornvad, Mads
; APPLICANT: Andersen, Jens
; APPLICANT: Kongsbak, Lars
; APPLICANT: Schuilein, Martin
; TITLE OF INVENTION: EXTRACELLULAR EXPRESSION OF PEPTATE LYASE USING BACILLUS OF ESCH
; FILE REFERENCE: 10003.200-US
; CURRENT APPLICATION NUMBER: US/09/834.231
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Thermotoga maritima
US-09-834-231-5

Query Match      50.5%; Score 55; DB 11; Length 367;
Best Local Similarity 62.5%; Pred. No. 0.93;
Matches 10; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 5 NAGQMPRARYGLIHV 20
    ||||| |||||

```

```

Cb 222 NCIQMPRIREFGMHV 235

RESULT 9
US-09-834-231-7
; Sequence 7, Application US/09834231;
; Publication No. US2003008745A1
; GENERAL INFORMATION:
; APPLICANT: Bjornvad, Mads
; APPLICANT: Andersen, Jens
; APPLICANT: Kongsbak, Lars
; APPLICANT: Schuilein, Martin
; TITLE OF INVENTION: EXTRACELLULAR EXPRESSION OF PEPTATE LYASE USING BACILLUS OF ESCH
; FILE REFERENCE: 10003.200-US
; CURRENT APPLICATION NUMBER: US/09/834.231
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 7
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-09-834-231-7

Query Match      50.5%; Score 54; DB 11; Length 360;
Best Local Similarity 62.5%; Pred. No. 0.91;
Matches 10; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 5 NAGQMPRIREFGMHV 20
    ||||| |||||
Cb 222 NCIQMPRIREFGMHV 237

RESULT 10
US-09-834-231-1
; Sequence 3, Application US/09834231;
; Publication No. US2003008745A1
; GENERAL INFORMATION:
; APPLICANT: Bjornvad, Mads
; APPLICANT: Andersen, Jens
; APPLICANT: Kongsbak, Lars
; APPLICANT: Schuilein, Martin
; TITLE OF INVENTION: EXTRACELLULAR EXPRESSION OF PEPTATE LYASE USING BACILLUS OF ESCH
; FILE REFERENCE: 10003.200-US
; CURRENT APPLICATION NUMBER: US/09/834.231
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 3
; LENGTH: 363
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-09-834-231-1

Query Match      50.5%; Score 54; DB 11; Length 363;
Best Local Similarity 62.5%; Pred. No. 0.97;
Matches 10; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 5 NAGQMPRIREFGMHV 20
    ||||| |||||
Cb 222 NCIQMPRIREFGMHV 237

RESULT 11
US-09-834-231-9
; Sequence 9, Application US/09834231;
; Publication No. US2003008745A1

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[illegible]



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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 303
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (110)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-948-783-303

Query Match      48.6%; Score 53; DB 11; Length 159;
Best Local Similarity 66.7%; Pred. No. 0.81;
Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      3 GPNAGQRMPPARYGL 17
      ||| | |||
Db      144 GPNLSHREPPARYGL 158

RESULT 15
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDICATED ALLERGIC DISEASES
; FILE REFERENCE: JC67,002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US 09-847-208-15

Query Match      48.6%; Score 53; DB 11; Length 159;
Best Local Similarity 52.6%; Pred. No. 2.1;
Matches 10; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY      2 FGNAGQRMPPARYGLIHW 23
      | | ||| | |
Db      267 FTDNVQRMPPRCRFFQV 285

Search completed: October 23, 2003, 11:21:56
Job time : 20.75 secs
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GenCore version: 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 Seconds  
(without alignments)  
74.230 Million cell updates/sec

Title: US-09-202-464-25

Perfect score: 109

Sequence: 1 CPGNAGORMPRARYGJHV 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 3%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2\_6/ptodata/2/1aa/6A\_COVB.pep.\*
- 4: /cgn2\_6/ptodata/2/1aa/6B\_COVB.pep.\*
- 5: /cgn2\_6/ptodata/2/1aa/PTCTUS\_COVB.pep.\*
- 6: /cgn2\_6/ptodata/2/1aa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	99.1	367	3	US-08-467-023-95
2	105	96.3	30	3	US-08-467-023-80
3	104	95.4	20	3	US-08-467-023-48
4	104	95.4	29	3	US-08-467-023-216
5	104	95.4	30	3	US-08-467-023-79
6	104	95.4	31	3	US-08-467-023-214
7	104	95.4	31	3	US-08-467-023-215
8	104	95.4	33	3	US-08-467-023-213
9	104	95.4	36	3	US-08-467-023-78
10	104	95.4	50	3	US-08-467-023-69
11	104	95.4	90	3	US-08-467-023-64
12	104	95.4	374	3	US-08-467-023-2
13	92	84.4	28	3	US-08-467-023-81
14	92	84.4	28	3	US-08-467-023-82
15	86	78.9	26	3	US-08-467-023-84
16	86	78.9	26	3	US-08-467-023-225
17	86	78.9	28	3	US-08-467-023-85
18	86	78.9	28	3	US-08-467-023-218
19	86	78.9	28	3	US-08-467-023-219
20	86	78.9	28	3	US-08-467-023-223
21	86	78.9	29	3	US-08-467-023-220
22	86	78.9	29	3	US-08-467-023-222
23	86	78.9	30	3	US-08-467-023-221
24	85	78.0	26	3	US-08-467-023-83
25	85	78.0	26	3	US-08-467-023-86
26	85	78.0	28	3	US-08-467-023-217
27	77	70.6	26	3	US-08-467-023-229

29	77	70.6	3	US-08-467-023-37	Sequence 97, Appl	
30	68	62.4	26	3	US-08-467-023-232	Sequence 212, Appl
31	53	48.6	20	3	US-08-467-023-49	Sequence 45, Appl
32	53	48.6	26	3	US-08-467-023-129	Sequence 123, Appl
33	53	48.6	30	3	US-08-467-023-97	Sequence 81, Appl
34	53	48.6	397	3	US-08-290-448A-76	Sequence 76, Appl
35	53	48.6	397	3	US-08-290-448A-76	Sequence 76, Appl
36	53	48.6	397	3	US-08-290-448A-76	Sequence 76, Appl
37	53	48.6	397	3	US-08-290-448A-76	Sequence 76, Appl
38	53	48.6	397	3	US-08-290-448A-76	Sequence 76, Appl
39	52	47.7	24	3	US-08-467-023-425	Sequence 223, Appl
40	52	47.7	343	3	US-08-292-448A-72	Sequence 72, Appl
41	52	47.7	343	3	US-08-292-448A-72	Sequence 72, Appl
42	52	47.7	343	3	US-08-292-448A-72	Sequence 72, Appl
43	52	47.7	343	3	US-08-292-448A-72	Sequence 72, Appl
44	52	47.7	343	3	US-08-292-448A-72	Sequence 72, Appl
45	51	46.8	21	3	US-08-467-023-47	Sequence 47, Appl

## REFERENCES

RESULT 1  
US-08-467-023-95  
Sequence 95, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffiths, Irwin G.  
APPLICANT: Pollock, Joanne  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard B.  
APPLICANT: Kuo, Wei Chang  
APPLICANT: Yeung, Siu-wei H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven F.  
TITLE OF INVENTION: Allele-specific Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 410 Lincoln St.  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: F-CD/Disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent Release # 1.0, Version # 1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: 08/08467023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PSICOR APPLICATION DATA:  
APPLICATION NUMBER: 08/08467023  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane S. Remillard  
REGISTRATION NUMBER: 38-872  
REFERENCE/DOCKET NUMBER: 024,6 USL2 INT 025CPR2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/ 227-7403  
TELEFAX: 617/ 227-5541  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-95

Query Match 99.1%; Score 108; DB 3; Length 367;  
Best Local Similarity 95.0%; Pred. No. 3e-10;  
Matches 19; Conservative 1; Mismatches 0; Indels

QY 1 QFGPNAGQMPRARYGLIHV 20  
|||'||||'||||'|:  
Db 242 QFGPNAGQMPRARYGLVHV 261

## RESULT 2

US-08-467-023-80  
Sequence No. Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin C.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bend, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF INVENTOR: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 26;  
CORRESPONDENCE ADDRESS: 26;  
ADDRESS: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154

```

Query Match      96.3%; Score 105; DB 3; Length 30;
Best Local Similarity 90.0%; Pred. No. 6.4e-11;
Matches 18; Conservative 2; Mismatches 0; Index

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```
QY      1 QFGPNAGQRYPRARYGLIHV 20  
        | | | | : | | | | | | | |  
Db     , 11 QFGPNSGORMPRARYGLVHV 30
```

DEC 11 1964

RESULTS:  
JS-08-467-023-18

```

1 Sequence 48, Application: US/0844302
2 Patent No. 5890396
3 GENERAL INFORMATION:
4 APPLICANT: Griffith, Irwin J.
5 APPLICANT: Pollock, Thomas
6 APPLICANT: Bond, Julian F.
7 APPLICANT: Garman, Richard B.
8 APPLICANT: Kuo, Melvin H.
9 APPLICANT: Yeung, Siu-mei H.
10 APPLICANT: Blauer, Andrew
11 APPLICANT: Exley, Mark A.
12 APPLICANT: Powers, Steven P.
13 TITLE OF INVENTION: Amino Acid Peptides And Peptides From
14 NUMBER OF SEQUENCES: 261
15 CORRESPONDENCE ADDRESS:
16 ADDRESSEE: Immunex Pharmaceuticals Corporation, Inc.
17 STREET: 410 Linsell St.
18 CITY: Walther
19 STATE: MA
20 COUNTRY: USA
21 ZIP: 02154
22 COMPUTER READABLE COPY:
23 MEDIUM TYPE: floppy disk
24 COMPUTER: IBM PC compatible
25 OPERATING SYSTEM: PC DOS/MS DOS
26 SOFTWARE: PATENT IN RELEASE #1 0, Version #1.0
27 CURRENT APPLICATION DATA:
28 APPLICATION NUMBER: US/0844302
29 FILING DATE: June 6, 1993
30 CLASSIFICATION: 424
31 PROP APPLICATION DATA:
32 APPLICATION NUMBER: 0844302
33 FILING DATE: December 5, 1994
34 ATTORNEY/AGENT INFORMATION:
35 NAME: Jane E. Romillard
36 REGISTRATION NUMBER: 15,910
37 REFERENCE/DOCKET NUMBER: 024 * 0001 (INT: 0844302)
38 TELECOMMUNICATION INFORMATION:
39 TELEPHONE: (617) 227-1400
40 TELEFAX: (617) 227-1541
41 INFORMATION FOR SEQ 15: 261
42 SEQUENCE CHARACTERISTICS:
43 LENGTH: 20 amino acids
44 TYPE: amino acid
45 TOPOLOGY: linear
46 MOLECULE TYPE: peptide
47 FRAGMENT TYPE: internal
48 US-08-467-023 48

```

Query Match 55.43; Score 104; EP 3; Length 20;  
Post-Local Similarity 90.00; Pred. No. 64 11;  
Matches 18; Conservative 17; Mismatches 17; Indels

Cy  
; OECNACORMPART-001V 20  
| | | |  
E6  
; OECNACORMPART-001V 20

2013

US-58-43-023 216  
Sequence 216, Application US-58-43-023  
Patent No. 609386  
GENERAL INFORMATION  
APPLICANT: Griffith, Edwin J.  
APPLICANT: Pollock, George  
APPLICANT: Bond, Nathan F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuo, Mel Sheng  
APPLICANT: Yeung, Shummei H.  
APPLICANT: Trauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.

```

1 TITLE OF INVENTION: Allergenic Proteins And Peptides From
2 TITLE OF INVENTION: Japanese Cedar Pollen
3 NUMBER OF SEQUENCES: 261
4 CORRESPONDENCE ADDRESS:
5 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
6 STREET: 610 Lincoln St
7 CITY: Waltham
8 STATE: MA
9 COUNTRY: USA
10 ZIP: 02154
11 COMPUTER READABLE FORM:
12 MEDIUM TYPE: Floppy disk
13 COMPUTER: IBM PC compatible
14 OPERATING SYSTEM: PC-DOS/MS-DOS
15 SOFTWARE: Patent Release #1.0, Version #1.25
16 CURRENT APPLICATION DATA:
17 APPLICATION NUMBER: US/08/467,021
18 FILING DATE: June 6, 1995
19 CLASSIFICATION: 424
20 PRIOR APPLICATION DATA:
21 APPLICATION NUMBER: 08/350,225
22 FILING DATE: December 6, 1994
23 ATTORNEY/AGENT INFORMATION:
24 NAME: Jane E. Remillard
25 REGISTRATION NUMBER: 38,872
26 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IN: 028CPD2)
27 TELEPHONE: (617) 227-7400
28 TELEFAX: (617) 227-5941
29 INFORMATION FOR SEQ ID NO: 216:
30 SEQUENCE CHARACTERISTICS:
31 LENGTH: 29 amino acids
32 TYPE: amino acid
33 TOPOLOGY: linear
34 MOLECULE TYPE: peptide
35 FRAGMENT TYPE: internal
36 US-09-467-023-216

Query Match 95.4% Score 104: DP 3: Length 29:
Best Local Similarity 90.0% Pred. No. 9e-11:
Matches 18: Conservative 1: Mismatches 1: Indels 0: Gaps 0:

Qy 1 QFGNAGQRMPPARYGLIHV 20
Db 4 QFGNCGQRMPPARYGLHVV 23
||||| ||||| ||||| |||||
1 QFGNAGQRMPPARYGLIHV 20
2 QFGNCGQRMPPARYGLHVV 23

RESULT 5
US-08-467-023-79
Sequence 79, Application US/8467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,021
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IN: 028CPD2)
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 216:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-09-467-023-216

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1 COMPUTER: IBM PC compatible
2 OPERATING SYSTEM: PC-DOS/MS-DOS
3 SOFTWARE: Patent Release #1.0, Version #1.25
4 CURRENT APPLICATION DATA:
5 APPLICATION NUMBER: US/08/467,021
6 FILING DATE: June 6, 1995
7 CLASSIFICATION: 424
8 PRIOR APPLICATION DATA:
9 APPLICATION NUMBER: 08/350,225
10 FILING DATE: December 6, 1994
11 ATTORNEY/AGENT INFORMATION:
12 NAME: Jane E. Remillard
13 REGISTRATION NUMBER: 38,872
14 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IN: 028CPD2)
15 TELEPHONE: (617) 227-7400
16 TELEFAX: (617) 227-5941
17 INFORMATION FOR SEQ ID NO: 216:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 30 amino acids
20 TYPE: amino acid
21 TOPOLOGY: linear
22 MOLECULE TYPE: peptide
23 FRAGMENT TYPE: internal
24 US-08-467-023-79

Query Match 95.4% Score 104: DP 3: Length 30:
Best Local Similarity 90.0% Pred. No. 9.4e-11:
Matches 18: Conservative 1: Mismatches 1: Indels 0: Gaps 0:

Qy 1 QFGNAGQRMPPARYGLIHV 20
Db 11 QFGNCGQRMPPARYGLHVV 16
||||| ||||| ||||| |||||

RESULT 6
US-08-467-023-214
Sequence 214, Application US/8467021
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,021
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard

```

REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CTD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 214:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 31 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-214

Query Match 95.4% Score 104; DB 3; Length 31;  
 Best Local Similarity 90.0%; Pred. No. 9.7e-11;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 CQGNAGQMPRPARYGLVHV 23  
 ||||| ||||| ||||| ||||| |||||  
 DB 6 CQGNCGQMPRPARYGLVHV 25

## RESULT 7

US-08-467-023-215  
 Sequence 215, Application US/08467023  
 Patent No. 6990386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pellock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Koo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Immunologic Pharmaceutical Corporation, Inc.,  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA: US/08467023  
 APPLICATION NUMBER: 08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CTD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 215:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 31 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal

US-09-202-464-25.ra1  
 Query Match 95.4% Score 104; DB 3; Length 31;  
 Best Local Similarity 90.0%; Pred. No. 9.7e-11;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

## RESULT 8

US-09-202-464-25.ra1  
 Sequence 215, Application US/08467023  
 Patent No. 6990386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pellock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D.;  
 APPLICANT: Koo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Immunologic Pharmaceutical Corporation, Inc.,  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08467023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CTD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 215:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 31 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-09-202-464-25.ra1

Query Match 95.4% Score 104; DB 3; Length 31;  
 Best Local Similarity 90.0%; Pred. No. 9.7e-11;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 CQGNAGQMPRPARYGLVHV 23  
 ||||| ||||| ||||| ||||| |||||  
 DB 8 CQGNCGQMPRPARYGLVHV 27

## RESULT 9

```

US-08-467-023-78
; Sequence 78, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-0260PT2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-78

Query Match 95.4%; Score 104; DB 3; Length 16;
Best Local Similarity 90.0%; Pred No. 1, 12;
Matches 18; Conservative 1; Mismatches 1; Indels 0;

QY 1 QFGPNAGQMPARYGLIHV 20
Db 11 QFGPNCGQMPARYGLVHV 30

RESULT 10
US-08-467-023-69
; Sequence 69, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-0260PT2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-69

Query Match 95.4%; Score 104; DB 3; Length 16;
Best Local Similarity 90.0%; Pred No. 1, 12;
Matches 18; Conservative 1; Mismatches 1; Indels 0;

QY 1 QFGPNAGQMPARYGLIHV 20
Db 11 QFGPNCGQMPARYGLVHV 30

RESULT 11
US-08-467-023-64
; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-0260PT2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-64

Query Match 95.4%; Score 104; DB 3; Length 16;
Best Local Similarity 90.0%; Pred No. 1, 12;
Matches 18; Conservative 1; Mismatches 1; Indels 0;

QY 1 QFGPNAGQMPARYGLIHV 20
Db 31 QFGPNCGQMPARYGLVHV 50

RESULT 12
US-08-467-023-64
; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:

```

```

US-08-467-023-78
; Sequence 78, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-026OPT2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-78

Query Match 95.4%; Score 104; DB 3; Length 16;
Best Local Similarity 90.0%; Pred No. 1, 12;
Matches 18; Conservative 1; Mismatches 1; Indels 0;

CY 1 QFGPNAGQMPARYGLIHV 20
Db 11 QFGPNCGQMPARYGLVHV 30

RESULT 10
US-08-467-023-69
; Sequence 69, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-026OPT2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-69

Query Match 95.4%; Score 104; DB 3; Length 16;
Best Local Similarity 90.0%; Pred No. 1, 12;
Matches 18; Conservative 1; Mismatches 1; Indels 0;

CY 1 QFGPNAGQMPARYGLIHV 20
Db 11 QFGPNCGQMPARYGLVHV 30

RESULT 11
US-08-467-023-64
; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-026OPT2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-69

Query Match 95.4%; Score 104; DB 3; Length 50;
Best Local Similarity 90.0%; Pred No. 1, 60-10;
Matches 18; Conservative 1; Mismatches 1; Indels 1;

CY 1 QFGPNAGQMPARYGLIHV 20
Db 31 QFGPNCGQMPARYGLVHV 50

RESULT 12
US-08-467-023-64
; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM-028CFD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5944  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 90 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-64

Query Match 95.4%; Score 104; DP 3; Length 90;  
Best Local Similarity 90.0%; Pred. No. 3; e-10;  
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QFGPNAGQMPRARYGLIHFV 20  
Db 31 QFGPNCQMPRARYGLVHV 50  
|||||:|||||:|

RESULT 12  
US-08-467-023-2  
Sequence 2, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Wei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM-028CFD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5944  
INFORMATION FOR SEQ ID NO: 61:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM-028CFD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5944  
INFORMATION FOR SEQ ID NO: 61:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 304 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-5

Query Match 95.4%; Score 104; DP 3; Length 304;  
Best Local Similarity 90.0%; Pred. No. 3; e-10;  
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QFGPNAGQMPRARYGLIHFV 20  
Db 242 QFGPNCQMPRARYGLVHV 50  
|||||:|||||:|

RESULT 13  
US-08-467-023-1  
Sequence 81, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Wei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM-028CFD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5944  
INFORMATION FOR SEQ ID NO: 61:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-82

Query Match: 84.4%; Score 92; DB 3; Length 28;  
Best Local Similarity 88.9%; Pred. No. 8.8e-09;  
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QFGPNAGQMPRVRGLI 18  
DB 1: QFGPNAGQMPRVRGLV 28

RESULT 14

US-08-467-023-82

Sequence 82, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bord, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-02RCPD2);  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 92:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-82

Query Match: 84.4%; Score 92; DB 3; Length 28;  
Best Local Similarity 88.9%; Pred. No. 8.8e-09;  
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QFGPNAGQMPRVRGLI 18  
DB 1: QFGPNAGQMPRVRGLV 28

RESULT 15

US-08-467-023-84

Sequence 84, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bord, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-02RCPD2);  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 84:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-84

Query Match: 86.3%; Score 86; DB 3; Length 26;  
Best Local Similarity 91.8%; Pred. No. 8.1e-08;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QFGPNAGQMPRVRGLI 16  
DB 1: QFGPNAGQMPRVRGLV 26

Search completed: October 23, 2003, 09:55:11  
Job time: 1: 4 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CorpuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 seconds  
(without alignment)  
169,590-million cell updates/sec

Title: US-09-202-464-26

Perfect score: 175

Sequence: 1 PRARYGLIHVANNYCPWS: 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 16746630 residues

Total number of hits satisfying chosen parameters: 621382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications, AA:  
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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.  
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9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.  
10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.  
12: /cgn2\_6/ptodata/1/pubpaa/US09C\_NEW\_PUB.pep.  
13: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.  
14: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.  
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16: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.  
17: /cgn2\_6/ptodata/1/pubpaa/US10C\_NEW\_PUB.pep.  
18: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	115	100.0	375	11	US-09-847-208-58
2	111	96.5	367	11	Sequence 48, Appl
3	111	96.5	374	11	Sequence 109, Appl
4	103	89.6	346	11	Sequence 68, Appl
5	81	72.2	15	12	Sequence 67, Appl
6	82	71.3	15	12	Sequence 62, Appl
7	70	60.9	396	11	Sequence 61, Appl
8	70	60.9	397	11	Sequence 11, Appl
9	70	60.9	398	11	Sequence 15, Appl
10	60	53.9	392	11	Sequence 14, Appl
11	60	52.2	397	11	Sequence 16, Appl
12	58	50.4	15	12	Sequence 17, Appl
13	56	48.7	399	12	Sequence 63, Appl
14	56	48.7	420	12	Sequence 17, Appl
15	53	46.1	15	12	Sequence 87, Appl
					Sequence 60, Appl

16	52	45.2	348	11	US-09-847-208-58	Sequence 1, Appl
17	52	45.2	349	11	US-09-847-208-58	Sequence 2, Appl
18	52	45.2	350	11	US-09-847-208-58	Sequence 3, Appl
19	52	45.2	351	11	US-09-847-208-58	Sequence 4, Appl
20	52	45.2	352	11	US-09-847-208-58	Sequence 5, Appl
21	52	45.2	353	11	US-09-847-208-58	Sequence 6, Appl
22	52	45.2	354	11	US-09-847-208-58	Sequence 7, Appl
23	52	45.2	355	11	US-09-847-208-58	Sequence 8, Appl
24	51.5	44.8	1176	15	US-10-124-714-3260	Sequence 360, Appl
25	51.5	44.8	1176	15	US-10-124-714-3260	Sequence 361, Appl
26	49	41.7	348	11	US-09-847-208-58	Sequence 362, Appl
27	49	41.7	349	11	US-09-847-208-58	Sequence 363, Appl
28	49	41.7	350	11	US-09-847-208-58	Sequence 364, Appl
29	49	41.7	351	11	US-09-847-208-58	Sequence 365, Appl
30	49	41.7	352	11	US-09-847-208-58	Sequence 366, Appl
31	49	41.7	353	11	US-09-847-208-58	Sequence 367, Appl
32	49	41.7	354	11	US-09-847-208-58	Sequence 368, Appl
33	49	41.7	355	11	US-09-847-208-58	Sequence 369, Appl
34	49	41.7	356	11	US-09-847-208-58	Sequence 370, Appl
35	49	41.7	357	11	US-09-847-208-58	Sequence 371, Appl
36	49	41.7	358	11	US-09-847-208-58	Sequence 372, Appl
37	49	41.7	359	11	US-09-847-208-58	Sequence 373, Appl
38	49	41.7	360	11	US-09-847-208-58	Sequence 374, Appl
39	49	41.7	361	11	US-09-847-208-58	Sequence 375, Appl
40	49	41.7	362	11	US-09-847-208-58	Sequence 376, Appl
41	49	41.7	363	11	US-09-847-208-58	Sequence 377, Appl
42	49	41.7	364	11	US-09-847-208-58	Sequence 378, Appl
43	49	41.7	365	11	US-09-847-208-58	Sequence 379, Appl
44	49	41.7	366	11	US-09-847-208-58	Sequence 380, Appl
45	49	41.7	367	11	US-09-847-208-58	Sequence 381, Appl

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
Sequence 58, Application US09847208  
Publication No. US2001020210CA  
GENERAL INFORMATION:  
APPLICANT: Zhang, Ke  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: POSITION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IMMEDIATELY ALLEGED DISEASES  
FILE REFERENCE: US671022A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 58  
TYPE: PRT  
LENGTH: 375  
ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-58

Query Match: 100.0% Score 115, DP 11, Length 375  
Best Local Similarity: 100.0% Ident. No. 456 Ident. Matches 270 Mismatches 0 Indels 0 Gaps 0

QY : PRARYGLIHVANNYCPWS: 20  
III III III III  
Db 252 PRARYGLIHVANNYCPWS: 271

RESULT 2  
US-09-847-208-109  
Sequence 109, Application US/09847208  
Publication No. US2001020210CA  
GENERAL INFORMATION:  
APPLICANT: Zhang, Ke  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: POSITION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: IMMEDIATELY ALLEGED DISEASES  
FILE REFERENCE: US671022A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 58  
TYPE: PRT  
LENGTH: 375  
ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-109

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version: 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 367  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Ozark white cedar)  
 US-09-847-208-109

Query Match 96.58; Score 111; PR 11; Length 374;  
 Best Local Similarity 90.08; Pred. No. 2,7e-03;  
 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPWSI 20  
 |||||:|||||:|||||:

Db 252 PRARYGLHVANNYDPWN: 271

RESULT 3  
 US-09-847-208-68  
 ; Sequence 68, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 374  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica (Japanese Cedar)  
 US-09-847-208-68

Query Match 96.58; Score 111; PR 11; Length 374;  
 Best Local Similarity 90.08; Pred. No. 2,7e-03;  
 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPWSI 20  
 |||||:|||||:|||||:

Db 252 PRARYGLHVANNYDPWTI 271

RESULT 4  
 US-09-847-208-67  
 ; Sequence 67, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 346  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 US-09-847-208-67

Query Match 92.83; Score 103; PR 11; Length 246;  
 Best Local Similarity 86.93; Pred. No. 4,9e-04;  
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPWSI 20  
 |||||:|||||:|||||:

Db 231 PRARYGLHVANNYDPWN: 271

RESULT 5  
 US-10-354-240-62  
 ; Sequence 62, Application US/10354240  
 ; Publication No. US20030194947A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akimichi  
 ; APPLICANT: Daijiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kido, Kohsuke  
 ; TITLE OF INVENTION: Patent Based Immune-Related Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SEQ ID NO 1  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-11-26  
 ; PRIOR APPLICATION NUMBER: PCT/JP00/066942  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: US 66/142,524  
 ; PRIOR FILING DATE: 1999-03-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1  
 ; SEQ ID NO 62  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: MIST FEATURE  
 ; LOCATION: 11-1151  
 ; OTHER INFORMATION: Cystic portion, Figure 1, Row 45  
 US 10 354 240 62

Query Match 92.83; Score 103; PR 11; Length 15;  
 Best Local Similarity 86.93; Pred. No. 4,9e-04;  
 Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 6 SHHVANNYDPWSI 20

Db 1 SHHVANNYDPWTI 15

RESULT 6  
 US-10-354-240-61  
 ; Sequence 61, Application US/10354240  
 ; Publication No. US20030194947A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akimichi  
 ; APPLICANT: Daijiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kido, Kohsuke  
 ; TITLE OF INVENTION: Patent Based Immune-Related Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SEQ ID NO 1  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-11-26  
 ; PRIOR APPLICATION NUMBER: PCT/JP00/066942  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: US 66/142,524  
 ; PRIOR FILING DATE: 1999-03-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1  
 ; SEQ ID NO 61  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:

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; NAME/KEY: MISC_FEATURE
; LOCATION: (1) (15)
; OTHER INFORMATION: Crvjl peptide, Figure 1, Row 47
US-10-354-240-61

Query Match      71.3%  Score 82; DB 12; Length 15;
Best Local Similarity 93.3%  Pred. No. 3.3e-06;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNY 15
   |||||:|||||
Db 1 PRARYGLHVANNY 15

RESULT 7
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO. 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match      60.9%  Score 70; DB 11; Length 196;
Best Local Similarity 61.1%  Pred. No. 0.0075;
Matches 11; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPW 18
   |||||:|||||
Db 275 PCRHHGFQVNNYDKW 292

RESULT 8
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-15

Query Match      60.9%  Score 70; DB 11; Length 197;
Best Local Similarity 61.1%  Pred. No. 0.0075;
Matches 11; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPW 18
   |||||:|||||
Db 276 PCRHHGFQVNNYDRW 293

RESULT 9
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-14

Query Match      60.9%  Score 70; DB 11; Length 198;
Best Local Similarity 61.1%  Pred. No. 0.0075;
Matches 11; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPW 18
   |||||:|||||
Db 277 PCRHHGFQVNNYDRW 294

RESULT 10
US-09-847-208-16
; Sequence 16, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-16

Query Match      53.9%  Score 62; DB 11; Length 192;
Best Local Similarity 50.0%  Pred. No. 0.113;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYDPW 18
   |||||:|||||
Db 272 PCRHHGFQVNNYDRW 289

RESULT 11
US-09-847-208-17
; Sequence 17, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
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; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 17  
 ; LENGTH: 197  
 ; TYPE: PRT  
 ; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-17

Query Match 52.2% Score 60; DB 11; Length 197;  
 Best Local Similarity 50.0%; Pred. No. 0.27; 7; Indels 0; Gaps 0;  
 Matches 9; Conservative 2; Mismatches 0;

QY 1 PRARYGLIHVANNYDPW 18  
 Db 276 PRCRFGFGFQVNNFYDRW 293

RESULT 12  
 US-10-354-240 63  
 ; Sequence 63, Application US/10354240  
 ; Publication No. US20030185847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sore, Toshio  
 ; APPLICANT: Kume, Akimori  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kino, Kichisuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 ; FILE REFERENCE: SPO-103D;  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 63  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptosporidia japonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 113..125  
 ; OTHER INFORMATION: Cys11 peptide, Figure 1, Row 49  
 US-10-354-240-63

Query Match 50.4% Score 56; DB 12; Length 15;  
 Best Local Similarity 50.0%; Pred. No. 0.018; 0; Indels 0; Gaps 0;  
 Matches 9; Conservative 1; Mismatches 0;

QY 1 ANNYDPWSI 20  
 Db 1 ANNYDPWTI 10

RESULT 13  
 US-10-403-192 17  
 ; Sequence 17, Application US/10403192  
 ; Publication No. US20030175940A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Schroder Glad, Sarnie O.  
 ; APPLICANT: Andersen, Carsten  
 ; APPLICANT: Schueler, Martin  
 ; APPLICANT: Frandsen, Torben P.  
 ; TITLE OF INVENTION: CELL-WALL DEGRADING ENZYME VARIANTS  
 ; FILE REFERENCE: 10044.200-US  
 ; CURRENT APPLICATION NUMBER: US/10/403,192  
 ; CURRENT FILING DATE: 2003-03-31  
 ; PRIOR APPLICATION NUMBER: US/09/910,505B  
 ; PRIOR FILING DATE: 2001-07-19  
 ; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 17  
 ; LENGTH: 199  
 ; TYPE: PRT  
 ; ORGANISM: Bacillus subtilis  
 US-10-403-192-17

Query Match 46.7% Score 56; DB 12; Length 199;  
 Best Local Similarity 56.2%; Pred. No. 1.21  
 Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYD 16  
 Db 281 PRVREGQGVNYYVE 294

RESULT 14  
 US-10-326-185-87  
 ; Sequence 87, Application US/10326185-87  
 ; Publication No. US20030185847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sore, Toshio  
 ; APPLICANT: Kume, Akimori  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kino, Kichisuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 ; FILE REFERENCE: 10241.200-US  
 ; CURRENT APPLICATION NUMBER: US/10/326,185  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 184  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 97  
 ; LENGTH: 420  
 ; TYPE: PRT  
 ; ORGANISM: Bacillus subtilis  
 US-10-326-185-87

Query Match 48.7% Score 56; DB 12; Length 420;  
 Best Local Similarity 56.2%; Pred. No. 1.21  
 Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYD 16  
 Db 302 PRVREGQGVNYYVE 317

RESULT 15  
 US-10-354-240 63  
 ; Sequence 60, Application US/10354240  
 ; Publication No. US20030185847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sore, Toshio  
 ; APPLICANT: Kume, Akimori  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kino, Kichisuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 ; FILE REFERENCE: SPO-103D;  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 60  
 ; LENGTH: 15  
 ; TYPE: PRT

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; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Pcw 46
US-10-354-240-60

Query Match      46.1% Score 53 DB 12 Length 15
Best Local Similarity 90.0% Pred. No. 0.11
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy      1 PRARYGLIHV 10
        |||||
Db      6 PRARYGLVHV 15

Search completed: October 23, 2003, 11:21:56
Job time : 19.75 secs
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OM protein - protein search, using sw model

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 Seconds  
(without alignments)  
74,230 million cell updates/sec

Title: US-09-202-464-26

Perfect score: 115

Sequence: 1 PRARYGLIHVANNYDPWSI 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 128717

Minimum DB seq length: 0

Maximum DB seq length: 2000000350

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA: \*  
1: /cgn2\_6/prodata/2/1aa/5A.COMB.pep: \*  
2: /cgn2\_6/prodata/2/1aa/5B.COMB.pep: \*  
3: /cgn2\_6/prodata/2/1aa/6A.COMB.pep: \*  
4: /cgn2\_6/prodata/2/1aa/6B.COMB.pep: \*  
5: /cgn2\_6/prodata/2/1aa/PC-US.COMB.pep: \*  
6: /cgn2\_6/prodata/2/1aa/backfil.esi.pep: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	111	96.5	20	3	US-08-467-023-49 Sequence 49, Appl
2	111	96.5	26	3	US-08-467-023-129 Sequence 129, Appl
3	111	96.5	30	3	US-08-467-023-87 Sequence 87, Appl
4	111	96.5	90	3	US-08-467-023-64 Sequence 64, Appl
5	111	96.5	367	3	US-08-467-023-95 Sequence 95, Appl
6	111	96.5	374	3	US-08-467-023-2 Sequence 2, Appl
7	104	90.4	19	3	US-08-467-023-258 Sequence 258, Appl
8	104	90.4	26	3	US-08-467-021-89 Sequence 89, Appl
9	104	90.4	28	3	US-08-467-023-88 Sequence 88, Appl
10	88	76.5	29	3	US-08-467-023-216 Sequence 216, Appl
11	88	76.5	31	3	US-08-467-023-214 Sequence 214, Appl
12	88	76.5	31	3	US-08-467-023-215 Sequence 215, Appl
13	88	76.5	33	3	US-08-467-021-213 Sequence 213, Appl
14	88	76.5	36	3	US-08-467-021-78 Sequence 78, Appl
15	88	76.5	370	3	US-08-467-021-97 Sequence 97, Appl
16	70	60.9	45	1	US-08-290-448A-12 Sequence 12, Appl
17	70	60.9	45	1	US-08-290-448A-12 Sequence 12, Appl
18	70	60.9	45	1	US-08-290-448A-12 Sequence 12, Appl
19	70	60.9	45	4	US-08-461-939B-12 Sequence 12, Appl
20	70	60.9	45	4	US-08-464-000-12 Sequence 12, Appl
21	70	60.9	387	1	US-08-290-448A-72 Sequence 72, Appl
22	70	60.9	387	1	US-08-290-448A-72 Sequence 72, Appl
23	70	60.9	387	1	US-08-175-069A-72 Sequence 72, Appl
24	70	60.9	387	4	US-08-461-939B-72 Sequence 72, Appl
25	70	60.9	387	4	US-08-464-000-72 Sequence 72, Appl
26	70	60.9	391	1	US-08-290-448A-59 Sequence 59, Appl
27	70	60.9	391	1	US-08-290-448A-59 Sequence 59, Appl

28	70	60.9	391	1	US-08-461-939B-59 Sequence 59, Appl
29	70	60.9	391	4	US-08-461-939B-59 Sequence 59, Appl
30	70	60.9	391	4	US-08-461-939B-59 Sequence 59, Appl
31	70	60.9	397	1	US-08-290-448A-76 Sequence 76, Appl
32	70	60.9	397	1	US-08-290-448A-76 Sequence 76, Appl
33	70	60.9	397	1	US-08-175-069A-76 Sequence 76, Appl
34	70	60.9	397	4	US-08-461-939B-76 Sequence 76, Appl
35	70	60.9	397	4	US-08-461-939B-76 Sequence 76, Appl
36	70	60.9	398	1	US-08-290-448A-74 Sequence 74, Appl
37	70	60.9	398	1	US-08-290-448A-74 Sequence 74, Appl
38	70	60.9	398	1	US-08-175-069A-74 Sequence 74, Appl
39	70	60.9	398	4	US-08-461-939B-74 Sequence 74, Appl
40	70	60.9	398	4	US-08-461-939B-74 Sequence 74, Appl
41	69	60.0	41	1	US-08-290-448A-13 Sequence 13, Appl
42	69	60.0	41	1	US-08-290-448A-13 Sequence 13, Appl
43	69	60.0	42	1	US-08-175-069A-13 Sequence 13, Appl
44	69	60.0	42	4	US-08-461-939B-13 Sequence 13, Appl
45	69	60.0	42	4	US-08-461-939B-13 Sequence 13, Appl

ALIGNMENTS

RESULT 1  
US-08-467-023-49  
Sequence 49, Application US/08/467023  
Patent No. 690194  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Thomas  
APPLICANT: Bord, Julian P.  
APPLICANT: Gurnea, Richard D.  
APPLICANT: Kuo, Mei-Chang  
APPLICANT: Yeung, Siu-mei H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Erley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Anticancer Proteins And Peptides For  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.  
STREET: 410 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: 08/08/467,423  
FILING DATE: Sep 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/08/290,424  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Carl E. Penillard  
REGISTRATION NUMBER: 19,872  
REFERENCE/DOCKET NUMBER: 024.5 US2 (IM-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-49

Query Match 96.5% Score 111; DB 3; Length 26;  
Best Local Similarity 90.0%; Pred. No. 8.9e-11;  
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNVDPKSI 20  
DB 1 PRARYGLHVANNVDPWTI 20

RESULT 2

US-08-467-023-129  
Sequence 129, Application US/08457023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 US22 (IM1-0288P02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 129:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-129

Query Match 96.5% Score 111; DB 3; Length 26;  
Best Local Similarity 90.0%; Pred. No. 1.2e-10;  
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNVDPKSI 20  
DB 4 PRARYGLHVANNVDPWTI 23

RESULT 3

US-08-467-023-67  
Sequence 67, Application US/08457023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 US22 (IM1-0288P02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-57

Query Match 96.5% Score 111; DB 3; Length 30;  
Best Local Similarity 90.0%; Pred. No. 1.4e-10;  
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLHVANNVDPWTI 20  
DB 1 PRARYGLHVANNVDPWTI 20

RESULT 4

US-08-467-023-64  
Sequence 64, Application US/08457023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;

```

; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7403
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 90 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: interna:
US-08-467-023-64

Query Match 96.5%; Score 111; DB 3; Length 92;
Best Local Similarity 90.0%; Pred. No. 4.7e-10;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLHVVANNYDPWSI 20
Db 41 PRARYGLHVVANNYDPWT 60

RESULT 5
US-08-467-023 95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:

```

```

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7403
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 90:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-95

Query Match 96.5%; Score 111; DB 3; Length 367;
Best Local Similarity 90.0%; Pred. No. 2.2e-09;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLHVVANNYDPWSI 20
Db 252 PRARYGLHVVANNYDPWT 291

RESULT 6
US-08-467-023 2
; Sequence 2, Application US/08467023
; Patent No. 6030386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard

```



```

Query Match: 95.4%; Score: 104; DB: 1; Length: 19;
Best Local Similarity: 89.5%; Prod. No: 1.4e-03;
Matches: 17; Conservative: 2; Mismatches: 0; Indels: 0; Gaps: 0

CY 2 PARYGLVHVANNYDQWSI 10
||| ||| |||
DB 1 PARYGLVHVANNYDQWSI 10

RESULT 5
US-38-467-023-89
Sequence 59; Application: Immunologic
Parent No: 6090186
GENERAL INFORMATION:
APPLICANT: Griffith, Howard J.
APPLICANT: Pollock, Charles
APPLICANT: Bond, William J.
APPLICANT: Galtan, Richard J.
APPLICANT: Kuo, Mei Chang
APPLICANT: Young, Stephen J.
APPLICANT: Brauer, Andrew
APPLICANT: Exley, Mark A.
APPLICANT: Powers, Steven B.
TITLE OF INVENTION: Allergic Rhinitis And Pollenoid Block
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SOURCES: 261
CORRESPONDENCE ADDRESS: Pharmacia (USA) Corporation, Inc.
ADDRESSEE: Immunologic
STREET: 610 Lincoln St
CITY: Walham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS DOS
SOFTWARE: Patenlib Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/38-467-023
FILING DATE: June 4, 1985
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 69,950,735
FILING DATE: December 6, 1984
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remick Ltd
REGISTRATION NUMBER: 38,871
REFERENCE/DOCKET NUMBER: 023-6 US/02-01M-02800021
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-5439
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-38-467-023-89

Query Match: 95.4%; Score: 104; DB: 1; Length: 26;
Best Local Similarity: 89.5%; Prod. No: 1.4e-03;
Matches: 17; Conservative: 2; Mismatches: 0; Indels: 0; Gaps: 0

CY 2 PARYGLVHVANNYDQWSI 20
||| ||| ||| |||
DB 1 PARYGLVHVANNYDQWSI 19

RESULT 9
US-38-467-023-89

```

```

: Sequence 88, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.;
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent in Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (MI 025CPD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 88:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 28 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-88

Query Match 90.4%; Score 104; DR 3; Length 28;
Best Local Similarity 89.5%; Pred. No. 1.6e-09;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 PARYGLIHVANNVDPW1 20
: |||||:|||||:
Db 1 PARYGLVHVANNVDPW1 19
: |||||:|||||:

RESULT 10
US-08-467-023-216
: Sequence 216, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.;
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk

```

```

: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent in Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (MI 025CPD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 216:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 29 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-216

Query Match 95.5%; Score 99; DR 3; Length 29;
Best Local Similarity 93.8%; Pred. No. 4.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PARYGLIHVANNKY 16
: |||||:|||||:
Db 14 PARYGLVHVANNKED 29
: |||||:|||||:

RESULT 11
US-08-467-023-214
: Sequence 214, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.;
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk

```

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? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 39,872
? REFERENCE/DOCKET NUMBER: 025.6 US02 (IM-02PFC2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 214:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 31 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-214

Query Match: 76.5%; Score 88; DP 3; Length 31;
Best Local Similarity: 93.8%; Pred. No. 5,090,396
Matches: 15; Conservative: 1; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 PRARYGVHVANNYD 16
DB 16 PRARYGVHVANNYD 31

RESULT 12
US-08-467-023-215
? Sequence 215, Application US/08467023
? Patent No. 5090396
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Coance;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuc, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard

```

```

? REGISTRATION NUMBER: 39,872
? REFERENCE/DOCKET NUMBER: 025.6 US02 (IM-02PFC2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 214:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 31 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-215

Query Match: 76.5%; Score 88; DP 3; Length 31;
Best Local Similarity: 93.8%; Pred. No. 5,090,396
Matches: 15; Conservative: 1; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 PRARYGVHVANNYD 16
DB 16 PRARYGVHVANNYD 31

RESULT 13
US-08-467-023-215
? Sequence 215, Application US/08467023
? Patent No. 5090396
? GENERAL INFORMATION:
? APPLICANT: Griffith, Irwin J.;
? APPLICANT: Pollock, Coance;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuc, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 39,872
? REFERENCE/DOCKET NUMBER: 025.6 US02 (IM-02PFC2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 215:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 33 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal

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US-08-467-023-213

Query Match 76.5%; Score 88; DB 3; Length 33;  
 Best Local Similarity 93.8%; Pred. No. 5, 4e-07;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYD 16  
 |||||:|||||  
 DB 18 PRARYGLVHANNYD 33

## RESULT 14

US-08-467-023-78  
 : Sequence 78, Application US/08467023  
 : Patent No. 6090386  
 : GENERAL INFORMATION:  
 : APPLICANT: Griffith, Irwin J.;  
 : APPLICANT: Pollock, Joanne;  
 : APPLICANT: Bond, Julian F.;  
 : APPLICANT: Garman, Richard D;  
 : APPLICANT: Kuo, Mei-Chang;  
 : APPLICANT: Yeung, Siu-mei H.;  
 : APPLICANT: Brauer, Andrew;  
 : APPLICANT: Exley, Mark A.;  
 : APPLICANT: Powers, Steven P.  
 : TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 : TITLE OF INVENTION: Japanese Cedar Pollen  
 : NUMBER OF SEQUENCES: 261  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 : STREET: 610 Lincoln St  
 : CITY: Waltham  
 : STATE: MA  
 : COUNTRY: USA  
 : ZIP: 02154  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: PC floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent In Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/467,023  
 : FILING DATE: June 6, 1995  
 : CLASSIFICATION: 424  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 08/350,225  
 : FILING DATE: December 6, 1994  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Jane E. Remillard  
 : REGISTRATION NUMBER: 38,872  
 : REFERENCE/DOCKET NUMBER: 025.6 USD2 (TXI-C28CPD2)  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (617) 227-7400  
 : TELEFAX: (617) 227-5941  
 : INFORMATION FOR SEQ ID NO: 78:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 36 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: peptide  
 : FRAGMENT TYPE: internal

US-08-467-023-78

Query Match 76.5%; Score 88; DB 3; Length 36;  
 Best Local Similarity 93.8%; Pred. No. 6e-07;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYD 16  
 |||||:|||||  
 DB 21 PRARYGLVHANNYD 36

## RESULT 15

US-08-467-023-97  
 : Sequence 97, Application US/08467003  
 : Patent No. 6090396  
 : GENERAL INFORMATION:  
 : APPLICANT: Griffith, Irwin J.;  
 : APPLICANT: Pollock, Joanne;  
 : APPLICANT: Bond, Julian F.;  
 : APPLICANT: Garman, Richard D;  
 : APPLICANT: Kuo, Mei-Chang;  
 : APPLICANT: Yeung, Siu-mei H.;  
 : APPLICANT: Brauer, Andrew;  
 : APPLICANT: Exley, Mark A.;  
 : APPLICANT: Powers, Steven P.

: TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 : TITLE OF INVENTION: Japanese Cedar Pollen  
 : NUMBER OF SEQUENCES: 261  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 : STREET: 610 Lincoln St  
 : CITY: Waltham  
 : STATE: MA  
 : COUNTRY: USA  
 : ZIP: 02154  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent In Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/467,023  
 : FILING DATE: June 6, 1995  
 : CLASSIFICATION: 424  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 08/350,225  
 : FILING DATE: December 6, 1994  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Jane E. Remillard  
 : REGISTRATION NUMBER: 38,872  
 : REFERENCE/DOCKET NUMBER: 025.6 USD2 (TXI-C28CPD2)  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (617) 227-7400  
 : TELEFAX: (617) 227-5941  
 : INFORMATION FOR SEQ ID NO: 97:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 370 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: protein

US-08-467-023-97

Query Match 76.5%; Score 88; DB 3; Length 370;  
 Best Local Similarity 97.8%; Pred. No. 7.2e-06;  
 Matches 14; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 PRARYGLIHVANNYD 18  
 |||||:|||||  
 DB 252 PRARYGLVHANNYD 264

Search completed: October 23, 2003, 09:55:31  
 Job time: 11.4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 : Search time 19.75 Seconds  
(without alignments)  
169.592\*Million cell updates/sec

Title: US-09-202-464-27

Perfect score: 114

Sequence: 1 ANNNDPWSIYAGSSNPT 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 623382 seqs, 167463630 residues

Total number of hits satisfying chosen parameters: 620342

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB pep:  
2: /cgn2\_6/ptodata/1/pubpaa/PC7\_NEW\_PUB pep:  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB pep:  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB pep:  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB pep:  
6: /cgn2\_6/ptodata/1/pubpaa/PC7\_US\_PUBCOMB pep:  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB pep:  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB pep:  
9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB pep:  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB pep:  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB pep:  
12: /cgn2\_6/ptodata/1/pubpaa/US09A\_NEW\_PUB pep:  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB pep:  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB pep:  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB pep:  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB pep:  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB pep:  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	114	100.0	375	11	US-09-847-208-58 Sequence 58, Appl
2	111	97.4	367	11	US-09-847-208-109 Sequence 109, Appl
3	111	97.4	374	11	US-09-847-208-68 Sequence 68, Appl
4	103	90.4	346	11	US-09-847-208-67 Sequence 67, Appl
5	85	74.6	15	12	US-10-354-240-63 Sequence 63, Appl
6	84	73.7	396	11	US-09-847-208-13 Sequence 13, Appl
7	84	73.7	397	11	US-09-847-208-15 Sequence 15, Appl
8	84	73.7	398	11	US-09-847-208-14 Sequence 14, Appl
9	82	71.9	15	12	US-10-354-240-64 Sequence 64, Appl
10	81	71.1	397	11	US-09-847-208-17 Sequence 17, Appl
11	76	66.7	392	11	US-09-847-208-16 Sequence 16, Appl
12	58	50.9	15	12	US-10-354-240-62 Sequence 62, Appl
13	53	46.5	15	12	US-10-354-240-65 Sequence 65, Appl
14	47	41.2	251	12	US-10-032-585-7420 Sequence 7420, Ap
15	46	40.4	578	9	US-09-732-042-2 Sequence 2, Appl

16	46	40.4	1117	10	US-09-963-896-7 Sequence 7, Appl
17	43	37.7	25	9	US-09-864-761-38484 Sequence 18484, A
18	43	37.7	550	11	US-09-906-419-78 Sequence 19, Appl
19	43	37.7	550	15	US-10-119-136-38 Sequence 38, Appl
20	42	36.8	542	11	US-09-926-419-40 Sequence 40, Appl
21	42	36.8	542	15	US-10-119-136-40 Sequence 40, Appl
22	42	36.8	552	11	US-09-926-419-37 Sequence 37, Appl
23	42	36.8	552	15	US-10-119-136-37 Sequence 37, Appl
24	41	36.0	51	9	US-09-864-761-42235 Sequence 40235, A
25	41	36.0	72	15	US-10-156-698-4466 Sequence 4466, Ap
26	41	36.0	134	12	US-09-933-767-1009 Sequence 1009, Ap
27	41	36.0	136	15	US-10-223-282-1009 Sequence 1009, Ap
28	41	36.0	212	15	US-10-181-464A-549 Sequence 549, App
29	41	36.0	342	9	US-09-799-777-3 Sequence 3, Appl
30	41	36.0	344	12	US-09-941-767-1008 Sequence 1008, Ap
31	41	36.0	354	15	US-10-021-282-1009 Sequence 1009, Ap
32	41	36.0	447	9	US-09-930-754-9 Sequence 9, Appl
33	41	36.0	347	15	US-09-939-832-9 Sequence 9, Appl
34	41	36.0	347	12	US-09-939-832-9 Sequence 9, Appl
35	41	36.0	347	12	US-10-237-249-57 Sequence 57, Appl
36	41	36.0	348	10	US-09-734-626-4943 Sequence 4943, Ap
37	41	36.0	1138	12	US-10-021-660-44 Sequence 44, Appl
38	41	36.0	1324	12	US-10-030-193-4 Sequence 4, Appl
39	41	36.0	1738	15	US-10-059-845-44 Sequence 44, Appl
40	40.5	35.5	630	12	US-10-398-119-3 Sequence 3, Appl
41	40.5	35.5	708	12	US-10-332-585-7088 Sequence 7088, A
42	40	35.1	45	9	US-09-864-761-48256 Sequence 48256, A
43	40	35.1	63	9	US-09-864-761-38898 Sequence 38898, A
44	40	35.1	73	9	US-09-864-761-37732 Sequence 37732, A
45	40	35.1	86	9	US-09-864-761-48030 Sequence 48030, A

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
: Sequence 58, Application US/09847208  
: Publication No. US2003082190A1  
: GENERAL INFORMATION:  
: APPLICANT: Saxon, Andrew  
: APPLICANT: Zhang, Ke  
: APPLICANT: Zhu, Daosheng  
: TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
: TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
: FILE REFERENCE: J067.002A  
: CURRENT APPLICATION NUMBER: US/09/847,208  
: CURRENT FILING DATE: 2001-05-01  
: NUMBER OF SEQ ID NOS: 177  
: SOFTWARE: FastSeq for Windows Version 4.0  
: SEQ ID NO 96  
: TYPE: PRT  
: LENGTH: 375  
: ORGANISM: Chamaecyparis obtusa (Japanese Cypress)  
US-09-847-208-58

Query Match: 100.0% Score: 114 DB: 11  
Best Local Similarity: 100.0% Prob. No.: 2.0e-09  
Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0

Cy : ANNNDPWSIYAGSSNPT 20  
|||||  
Db : 262 ANNNDPWSIYAGSSNPT 262

RESULT 2  
US-09-847-208-109  
: Sequence 109, Application US/09847208  
: Publication No. US2003082190A1  
: GENERAL INFORMATION:  
: APPLICANT: Saxon, Andrew  
: APPLICANT: Zhang, Ke  
: APPLICANT: Zhu, Daosheng

? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ? FILE REFERENCE: UC67.002A  
 ? CURRENT APPLICATION NUMBER: US/09/847,208  
 ? CURRENT FILING DATE: 2001-05-01  
 ? NUMBER OF SEQ ID NOS: 177  
 ? SOFTWARE: FastSEQ for Windows Version 4.0  
 ? SEQ ID NO 109  
 ? LENGTH: 367  
 ? TYPE: PRT  
 ? ORGANISM: Juniperus ashei (Ozark white cedar)  
 US-09-847-208-109

Query Match 97.4%; Score 111; DB 11; Length 367;  
 Best Local Similarity 95.0%; Pred. No. 6,6e-09;  
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNYDPWSIYAIGGSSNPT 23  
 |||||:|||||:|||||:|||||:

Db 262 ANNYDPWNIYAIGGSSNPT 2a:

RESULT 3

US-09-847-208-68

? Sequence 68, Application US/09847208

? Publication No. US20030082190A1

? GENERAL INFORMATION:

? APPLICANT: Saxon, Andrew

? APPLICANT: Zhang, Ke

? APPLICANT: Zhu, Daocheng

? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

? FILE REFERENCE: UC67.002A

? CURRENT APPLICATION NUMBER: US/09/847,208

? CURRENT FILING DATE: 2001-05-01

? NUMBER OF SEQ ID NOS: 177

? SOFTWARE: FastSEQ for Windows Version 4.0

? SEQ ID NO 68

? LENGTH: 374

? TYPE: PRT

? ORGANISM: Cryptomeria japonica (Japanese cedar)  
 US-09-847-208-68

Query Match 97.4%; Score 111; DB 11; Length 374;  
 Best Local Similarity 95.0%; Pred. No. 6,7e-09;  
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNYDPWSIYAIGGSSNPT 23  
 |||||:|||||:|||||:|||||:

Db 262 ANNYDPWNIYAIGGSSNPT 2a:

RESULT 4

US-09-847-208-67

? Sequence 67, Application US/09847208

? Publication No. US20030082190A1

? GENERAL INFORMATION:

? APPLICANT: Saxon, Andrew

? APPLICANT: Zhang, Ke

? APPLICANT: Zhu, Daocheng

? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

? FILE REFERENCE: UC67.002A

? CURRENT APPLICATION NUMBER: US/09/847,208

? CURRENT FILING DATE: 2001-05-01

? NUMBER OF SEQ ID NOS: 177

? SOFTWARE: FastSEQ for Windows Version 4.0

? SEQ ID NO 67

? LENGTH: 346

? TYPE: PRT

? ORGANISM: Cupressus arizonica  
 US-09-847-208-67

Query Match 97.4%; Score 104; DB 11; Length 346;  
 Best Local Similarity 95.0%; Pred. No. 1e-07;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ANNYDPWSIYAIGGSSNPT 23

|||||:|||||:|||||:|||||:

Db 241 ANNYDPWNIYAIGGSSNPT 2a:

RESULT 5

US-10-354-240-63

? Sequence 63, Application US/10354240

? Publication No. US2004014442A1

? GENERAL INFORMATION:

? APPLICANT: Saxon, Andrew

? APPLICANT: Kure, Akio

? APPLICANT: Oatiki, Kazuo

? APPLICANT: Iwama, Akiko

? APPLICANT: Kuro, Kenzo

? TITLE OF INVENTION: Polypeptide-based chemotherapeutic Agent for Treating Allergic Dis

? FILE REFERENCE: P01-1311

? CURRENT APPLICATION NUMBER: US/10354-240

? PRIOR FILING DATE: 2001-01-26

? PRIOR APPLICATION NUMBER: P01-1311

? PRIOR FILING DATE: 1997-01-10

? PRIOR APPLICATION NUMBER: US/09-143,624

? PRIOR FILING DATE: 1998-03-09

? NUMBER OF SEQ ID NOS: 174

? SOFTWARE: Patent in version 3.1

? SEQ ID NO 63

? LENGTH: 15

? TYPE: PRT

? ORGANISM: Cryptomeria japonica

? FEATURE:

? NAME/KEY: WISC FEATURE

? LOCATION: 11-112

? OTHER INFORMATION: Cyt1 peptide, Figure 1, Row 49

US-10-354-240-63

Query Match 74.6%; Score 85; DB 12; Length 15;  
 Best Local Similarity 91.8%; Pred. No. 2.1e-04;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNYDPWSIYAIGGSSNPT 15

|||||:|||||:|||||:

Db 1 ANNYDPWNIYAIGGSSNPT 14

RESULT 6

US-09-847-208-13

? Sequence 13, Application US/09847208

? Publication No. US20030082190A1

? GENERAL INFORMATION:

? APPLICANT: Saxon, Andrew

? APPLICANT: Zhang, Ke

? APPLICANT: Zhu, Daocheng

? TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

? TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

? FILE REFERENCE: UC67.002A

? CURRENT APPLICATION NUMBER: US/09/847,208

? CURRENT FILING DATE: 2001-05-01

? NUMBER OF SEQ ID NOS: 177

? SOFTWARE: FastSEQ for Windows Version 4.0

? SEQ ID NO 13

? LENGTH: 396

? TYPE: PRT

? ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
 US-09-847-208-13

Query Match 73.7%; Score 84; DB 12; Length 396;  
 Best Local Similarity 73.7%; Pred. No. 9.2e-05;  
 Matches 14; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPMWS:YAIGGSSNPT 20  
Db 286 NNNYDRMGTYAIGGSSAPT 304

## RESULT 7

US-09-847-208-15  
; Sequence 15, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxton, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: UC67.002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 15  
; LENGTH: 397  
; TYPE: PRT  
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-15

Query Match 73.7% Score 84; DB 11; Length 397;  
Best Local Similarity 78.9%; Pred. No. 9.2e-05;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 NNNYDPMWS:YAIGGSSNPT 20  
Db 287 NNNYDRMGTYAIGGSSAPT 305

## RESULT 8

US-09-847-208-14  
; Sequence 14, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxton, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: UC67.002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 14  
; LENGTH: 398  
; TYPE: PRT  
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-14

Query Match 73.7% Score 84; DB 11; Length 398;  
Best Local Similarity 78.9%; Pred. No. 9.3e-05;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 NNNYDPMWS:YAIGGSSNPT 20  
Db 288 NNNYDRMGTYAIGGSSAPT 306

## RESULT 9

US-10-354-240-64  
; Sequence 64, Application US/0354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akimori  
; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwata, Akiyo  
; APPLICANT: Kato, Kousuke  
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Dis  
; FILE REFERENCE: SPC-10301  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; PRIOR APPLICATION NUMBER: PCT/JP00/0740  
; PRIOR FILING DATE: 1997-03-16  
; PRIOR APPLICATION NUMBER: US/97/141,624  
; PRIOR FILING DATE: 1998-09-04  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: Patent Invention  
; SEQ ID NO 64  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cyathostoma immodica  
; FEATURES:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (11-115)  
; OTHER INFORMATION: Type: (11-115) Feature 1, Row 50  
US-10-354-240-64

Query Match 71.8% Score 82; DB 12; Length 15;  
Best Local Similarity 63.3%; Pred. No. 6.1e-06;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 DPWSIYAIGGSSNPT 20  
Db 1 DPWSIYAIGGSSNPT 14

## RESULT 10

US-09-847-208-17  
; Sequence 17, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxton, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: UC67.002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 17  
; LENGTH: 397  
; TYPE: PRT  
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)  
US-09-847-208-17

Query Match 71.9% Score 81; DB 11; Length 397;  
Best Local Similarity 64.8%; Pred. No. 6.0e-06;  
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 NNNYDPMWS:YAIGGSSNPT 20  
Db 287 NNNYDRMGTYAIGGSSAPT 304

## RESULT 11

US-09-847-208-16  
; Sequence 16, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxton, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: UC67.002A  
; CURRENT APPLICATION NUMBER: US/09/847,208





NUMBER OF SEQ ID NOS: 4  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 2  
LENGTH: 578  
TYPE: PR  
ORGANISM: HOMO SAPIENS  
US-09-732-020-2

Query Match 40.4% Score 46 DR 9 Length 578  
Best Local Similarity 52.9% Pred. No. 84  
Matches 9; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY : ANNYDPMSIYAGSS 17  
DB : ANANNCWPLLVIGSS 112

Search completed: October 23, 2003, 11:01:58  
Job time : 21.75 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OK protein - protein search, using sw mode:

Run on: October 23, 2003, 09:42:19 ; Search time 11.4 Seconds

Without alignment:  
74,230 Million cell updates/sec

Title: US-09-202-464-27

Perfect score: 114

Sequence: 1 ANNYPDWSYATGSSNPT 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 175777

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2\_6/ptodata/2/iaa/5A-COMB.pep.\*
- 2: /cgn2\_6/ptodata/2/iaa/5B-COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A-COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B-COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS-COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	111	97.4	20	3	US-08-467-021-50
2	111	97.4	30	3	US-08-467-023-87
3	111	97.4	90	3	US-08-467-023-64
4	111	97.4	367	3	US-08-467-023-95
5	111	97.4	374	3	US-08-467-023-2
6	106	93.0	28	3	US-08-467-023-88
7	93	81.6	26	3	US-08-467-023-89
8	90	78.9	370	3	US-08-467-023-97
9	84	73.7	30	1	US-08-290-448A-17
10	84	73.7	30	1	US-08-290-448A-17
11	84	73.7	30	1	US-08-175-069A-12
12	84	73.7	30	4	US-08-461-939B-17
13	84	73.7	30	4	US-08-461-939B-17
14	84	73.7	30	4	US-08-461-939B-17
15	84	73.7	45	1	US-08-290-448A-12
16	84	73.7	45	1	US-08-290-448A-12
17	84	73.7	45	1	US-08-175-069A-12
18	84	73.7	45	4	US-08-461-939B-12
19	84	73.7	387	1	US-08-290-448A-72
20	84	73.7	387	1	US-08-290-448A-72
21	84	73.7	387	1	US-08-175-069A-72
22	84	73.7	387	4	US-08-461-939B-72
23	84	73.7	387	4	US-08-461-939B-72
24	84	73.7	391	1	US-08-290-448A-59
25	84	73.7	391	1	US-08-290-448A-59
26	84	73.7	391	1	US-08-175-069A-59
27	84	73.7	391	4	US-08-461-939B-59

28 84 73.7 391 4 US-08-464-000-59  
29 84 73.7 391 1 US-08-290-448A-76  
30 84 73.7 391 1 US-08-290-448A-76  
31 94 73.7 391 1 US-08-175-069A-76  
32 84 73.7 391 4 US-08-461-939B-76  
33 84 73.7 391 4 US-08-464-000-76  
34 84 73.7 391 1 US-08-290-448A-74  
35 84 73.7 391 1 US-08-290-448A-74  
36 84 73.7 391 1 US-08-175-069A-74  
37 94 73.7 391 4 US-08-461-939B-74  
38 84 73.7 391 4 US-08-464-000-74  
39 91 71.1 43 1 US-08-290-448A-26  
40 61 71.1 43 1 US-08-290-448A-26  
41 91 71.1 43 1 US-08-175-069A-26  
42 91 71.1 43 4 US-08-461-939B-26  
43 91 71.1 43 1 US-08-464-000-26  
44 91 71.1 43 1 US-08-290-448A-25  
45 91 71.1 43 1 US-08-290-448A-25

## SUMMARIES

RESULT 1  
US-08-467-021-50  
Sequence 50, Application US/08467021  
Patent No. 6090396  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.  
APPLICANT: Pollock, Colette  
APPLICANT: Bond, Julian P.  
APPLICANT: Gattan, Richard D.  
APPLICANT: Kuo, Mei-Chang  
APPLICANT: Yeung, Steven H.  
APPLICANT: Brauer, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergic Proteins And Peptides From  
TITLE OF INVENTION: Japanese "Prior Art"  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: F-copy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS-DOS  
SOFTWARE: Patent Release #110, Version #1.05  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08467021  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PROIP APPLICATION DATA:  
APPLICATION NUMBER: 08/350,125  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Romillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USCP (IM: 028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-50

```

Query Match          97.48; Score 111; DB 3; Length 30;
Best Local Similarity 95.08; Pred. No. 2.5e-10;
Matches 19; Conservative 1; Mismatches 0; Indexes 0; Gaps 0;

Qy 1 ANNYDPMWS:VAIGSSNPT 20
|||||:|||||:|||||
Db 1 ANNYDPMWT:VAIGSSNPT 20
|||||:|||||:|||||

RESULT 2
US-08-467-023-87
; Sequence 87, Application US/28467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffiths, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar: Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,226
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (2M1-2087020)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-87

```

```

Query Match          97.48; Score 111; DB 3; Length 30;
Best Local Similarity 95.08; Pred. No. 2.5e-10;
Matches 19; Conservative 1; Mismatches 0; Indexes 0; Gaps 0;

Qy 1 ANNYDPMWS:VAIGSSNPT 20
|||||:|||||:|||||
Db 1 ANNYDPMWT:VAIGSSNPT 30
|||||:|||||:|||||

```

RESULT 3

```

US-08-467-023-64
; Sequence 44, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffiths, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar: Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,226
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (2M1-2087020)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-64

Query Match          97.48; Score 111; DB 3; Length 30;
Best Local Similarity 95.08; Pred. No. 2.5e-10;
Matches 19; Conservative 1; Mismatches 0; Indexes 0; Gaps 0;

Qy 1 ANNYDPMWS:VAIGSSNPT 20
|||||:|||||:|||||
Db 1 ANNYDPMWT:VAIGSSNPT 30
|||||:|||||:|||||

RESULT 4
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffiths, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;

```

```

1 APPLICANT: Powers, Steven P.
2 TITLE OF INVENTION: Allergenic Proteins And Peptides From
3 TITLE OF INVENTION: Japanese Cedar Pollen
4 NUMBER OF SEQUENCES: 261
5 CORRESPONDENCE ADDRESS:
6 ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.
7 STREET: 610 Lincoln St
8 CITY: Waltham
9 STATE: MA
10 COUNTRY: USA
11 ZIP: 02154
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE: Floppy disk
14 COMPUTER: IBM PC compatible
15 OPERATING SYSTEM: PC-DOS/MS-DOS
16 SOFTWARE: Patentin Release #1.0, Version #1.25
17 CURRENT APPLICATION NUMBER: US/08/467,023
18 FILING DATE: June 6, 1995
19 CLASSIFICATION: 424
20 PRIOR APPLICATION DATA:
21 APPLICATION NUMBER: 08/350,225
22 FILING DATE: December 6, 1994
23 ATTORNEY/AGENT INFORMATION:
24 NAME: Jane E. Remillard
25 REGISTRATION NUMBER: 38,872
26 REFERENCE/DOCKET NUMBER: 025.6 US02 (IM: 028CTD2)
27 TELECOMMUNICATION INFORMATION:
28 TELEPHONE: (617) 227-7400
29 TELEFAX: (617) 227-5941
30 INFORMATION FOR SEQ ID NO: 95:
31 SEQUENCE CHARACTERISTICS:
32 LENGTH: 367 amino acids
33 TYPE: amino acid
34 TOPOLOGY: linear
35 MOLECULE TYPE: protein
36 US-08-467-023-95
37
38 Query Match 97.4% Score 111; DB 3; Length 367;
39 Best Local Similarity 95.0%; Pred. No. 4, 1e-09;
40 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
41
42 QY 1 ANNYDPWSIVAIGSSNPT 20
43 I:|||||:|||||:|||||
44 Db 262 ANNYDPWNIYAIGSSNPT 281
45
46 RESULT 5
47 US-08-467-023-2
48 Sequence 2, Application US/08467023
49 Patent No. 6090386
50 GENERAL INFORMATION:
51 APPLICANT: Griffith, Irwin J.;
52 APPLICANT: Pollock, Joanne;
53 APPLICANT: Bord, Julian F.;
54 APPLICANT: Garman, Richard D.;
55 APPLICANT: Kuo, Mei-Chang;
56 APPLICANT: Yeung, Siu-mei H.;
57 APPLICANT: Brauer, Andrew;
58 APPLICANT: Exley, Mark A.;
59 APPLICANT: Powers, Steven P.
60 TITLE OF INVENTION: Allergenic Proteins And Peptides From
61 TITLE OF INVENTION: Japanese Cedar Pollen
62 NUMBER OF SEQUENCES: 261
63 CORRESPONDENCE ADDRESS:
64 ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.
65 STREET: 610 Lincoln St
66 CITY: Waltham
67 STATE: MA
68 COUNTRY: USA
69 ZIP: 02154
70 COMPUTER READABLE FORM:
71 MEDIUM TYPE: Floppy disk
72 COMPUTER: IBM PC compatible
73 OPERATING SYSTEM: PC-DOS/MS-DOS
74 SOFTWARE: Patentin Release #1.0, Version #1.25
75 CURRENT APPLICATION NUMBER: US/08/467,023
76 FILING DATE: June 6, 1995
77 CLASSIFICATION: 424
78 PRIOR APPLICATION DATA:
79 APPLICATION NUMBER: 08/350,225
80 FILING DATE: December 6, 1994
81 ATTORNEY/AGENT INFORMATION:
82 NAME: Jane E. Remillard
83 REGISTRATION NUMBER: 38,872
84 REFERENCE/DOCKET NUMBER: 025.6 US02 (IM: 028CTD2)
85 TELECOMMUNICATION INFORMATION:
86 TELEPHONE: (617) 227-7400
87 TELEFAX: (617) 227-5941
88 INFORMATION FOR SEQ ID NO: 95:
89 SEQUENCE CHARACTERISTICS:
90 LENGTH: 367 amino acids
91 TYPE: amino acid
92 TOPOLOGY: linear
93 MOLECULE TYPE: protein
94 US-08-467-023-95

```

```

1 COMPUTER: IBM PC compatible
2 OPERATING SYSTEM: PC-DOS/MS-DOS
3 SOFTWARE: Patentin Release #1.0, Version #1.25
4 CURRENT APPLICATION NUMBER: US/08/467,023
5 FILING DATE: June 6, 1995
6 CLASSIFICATION: 424
7 PRIOR APPLICATION DATA:
8 APPLICATION NUMBER: 08/350,225
9 FILING DATE: December 6, 1994
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Jane E. Remillard
12 REGISTRATION NUMBER: 38,872
13 REFERENCE/DOCKET NUMBER: 025.6 US02 (IM: 028CTD2)
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (617) 227-7400
16 TELEFAX: (617) 227-5941
17 INFORMATION FOR SEQ ID NO: 95:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 374 amino acids
20 TYPE: amino acid
21 TOPOLOGY: linear
22 MOLECULE TYPE: protein
23 US-08-467-023-2
24
25 Query Match 97.4% Score 111; DB 3; Length 374;
26 Best Local Similarity 95.0%; Pred. No. 4, 1e-09;
27 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
28
29 QY 1 ANNYDPWSIVAIGSSNPT 20
30 I:|||||:|||||:|||||
31 Db 262 ANNYDPWNIYAIGSSNPT 281
32
33 RESULT 6
34 US-08-467-023-89
35 Sequence 89, Application US/08467023
36 Patent No. 6090386
37 GENERAL INFORMATION:
38 APPLICANT: Griffith, Irwin J.;
39 APPLICANT: Pollock, Joanne;
40 APPLICANT: Bord, Julian F.;
41 APPLICANT: Garman, Richard D.;
42 APPLICANT: Kuo, Mei-Chang;
43 APPLICANT: Yeung, Siu-mei H.;
44 APPLICANT: Brauer, Andrew;
45 APPLICANT: Exley, Mark A.;
46 APPLICANT: Powers, Steven P.
47 TITLE OF INVENTION: Allergenic Proteins And Peptides From
48 TITLE OF INVENTION: Japanese Cedar Pollen
49 NUMBER OF SEQUENCES: 261
50 CORRESPONDENCE ADDRESS:
51 ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.
52 STREET: 610 Lincoln St
53 CITY: Waltham
54 STATE: MA
55 COUNTRY: USA
56 ZIP: 02154
57 COMPUTER READABLE FORM:
58 MEDIUM TYPE: Floppy disk
59 COMPUTER: IBM PC compatible
60 OPERATING SYSTEM: PC-DOS/MS-DOS
61 SOFTWARE: Patentin Release #1.0, Version #1.25
62 CURRENT APPLICATION NUMBER: US/08/467,023
63 FILING DATE: June 6, 1995
64 CLASSIFICATION: 424
65 PRIOR APPLICATION DATA:
66 APPLICATION NUMBER: 08/350,225
67 FILING DATE: December 6, 1994
68 ATTORNEY/AGENT INFORMATION:
69 NAME: Jane E. Remillard
70 REGISTRATION NUMBER: 38,872

```

REFERENCE/DOCKET NUMBER: 025.6 USD2 (M1-C28CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 88:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-88

Query Match 93.0%; Score 106; DB 3; Length 28;  
Best Local Similarity 94.7%; Pred. No. 1.3e-09;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY : ANNYDPWISYVIGSSNP 19  
Db : ANNYDPWISYVIGSSNP 28

RESULT 7  
US-08-467-023-89  
Sequence 29, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (M1-C28CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 89:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-89

Query Match 93.0%; Score 106; DB 3; Length 28;  
Best Local Similarity 94.7%; Pred. No. 1.3e-09;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY : ANNYDPWISYVIGSSNP 19  
Db : ANNYDPWISYVIGSSNP 28

RESULT 8  
US-08-467-023-97  
Sequence 27, Application US/08467027  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,027  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (M1-C28CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 90:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-97

Query Match 93.0%; Score 106; DB 3; Length 28;  
Best Local Similarity 94.7%; Pred. No. 1.3e-09;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY : ANNYDPWISYVIGSSNP 20  
Db : ANNYDPWISYVIGSSNP 281

RESULT 9  
US-08-290-448A-17  
Sequence 17, Application US/08290448A  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/448,017  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (M1-C28CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 91:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-290-448A-17

Query Match 93.0%; Score 106; DB 3; Length 28;  
Best Local Similarity 94.7%; Pred. No. 1.3e-09;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY : ANNYDPWISYVIGSSNP 20  
Db : ANNYDPWISYVIGSSNP 281

RESULT 10  
US-08-290-448A-17  
Sequence 17, Application US/08290448A  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.;  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/448,017  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (M1-C28CP02)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 92:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-290-448A-17

```

; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-290-448A-17

Query Match 73.7% Score 84 DB 1; Length 10;
Best Local Similarity 73.7% Pred. No. 3 le-06;
Matches 14; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPMISYIAIGGSNPT 20
|||||
Db 1: NNNYDPMISYIAIGGSASPT 20

RESULT 10
US-08-290-448A-17
; Sequence 17, Application US/08290448A
; Patent No. 5698024
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: December 29, 1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

```

```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-290-448A-17

Query Match 73.7% Score 84 DB 1; Length 10;
Best Local Similarity 73.7% Pred. No. 3 le-06;
Matches 14; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPMISYIAIGGSNPT 20
|||||
Db 1: NNNYDPMISYIAIGGSASPT 20

RESULT 11
US-08-290-464A-17
; Sequence 17, Application US/08290464A
; Patent No. 576761
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,464A
; FILING DATE: December 29, 1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018DV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

```

TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-175-369A-17

Query Match 73.7%; Score 84; DB 1; Length 30;  
Best Local Similarity 73.7%; Pred. No. 3.1e-06;  
Matches 14; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

CY 2 NNNYDPMISYAIGGSNPT 20  
DB 11 NNNYDPMISYAIGGSASPT 29

RESULT 12  
US-08-461-939B-17  
Sequence 17, Application US/08461939B  
Patent No. 6335019  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klappert, David G.  
APPLICANT: Rainar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Methods For Treating Sensitivity To A  
TITLE OF INVENTION: Protein Allergen Using Peptides which Induce A T Cell Epitope  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 28 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1975  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/461,939B  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/464,000  
FILING DATE: 05-JUN-1995  
APPLICATION NUMBER: US 08/290,443  
FILING DATE: 15-AUG-1994  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: 29-MAY-1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: 17-MAR-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragoras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMV-018CNDV  
TELEPHONE: (617)742-4214  
TELEFAX: (617)742-4214  
INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-461-939B-17

Query Match 73.7%; Score 84; DB 4; Length 30;  
Best Local Similarity 73.7%; Pred. No. 3.1e-06;

Matches 14; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
CY 2 NNNYDPMISYAIGGSNPT 20  
DB 11 NNNYDPMISYAIGGSASPT 29

RESULT 13  
US-08-464-000-17  
Sequence 17, Application US/08464000  
Patent No. 6335020  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klappert, David G.  
APPLICANT: Rainar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Methods For Treating Sensitivity To A  
TITLE OF INVENTION: Protein Allergen Using Peptides which Induce A T Cell Epitope  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 28 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1975  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,000  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/290,443  
FILING DATE: 15-AUG-1994  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: 29-MAY-1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: 17-MAR-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragoras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMV-018CNDV  
TELEPHONE: (617)742-4214  
TELEFAX: (617)742-4214  
INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-464-000-17

Query Match 73.7%; Score 84; DB 4; Length 30;  
Best Local Similarity 73.7%; Pred. No. 3.1e-06;  
Matches 14; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

CY 2 NNNYDPMISYAIGGSNPT 20  
DB 11 NNNYDPMISYAIGGSASPT 29

RESULT 14  
US-08-290-448A-12  
Sequence 12, Application US/08290448A  
Patent No. 5676954  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klappert, David G.  
APPLICANT: Rainar, Thorunn

```

1  APPLICANT: Kuo, Mei-chang
2  TITLE OF INVENTION: Allergenic Proteins From Patweed and Uses
3  NUMBER OF SEQUENCES: 93
4  CORRESPONDENCE ADDRESS:
5  ADDRESSEE: LAHIVE & COCKFIELD
6  STREET: 60 State Street, suite 510
7  CITY: Boston
8  STATE: Massachusetts
9  COUNTRY: USA
10 ZIP: 02109-1875
11 COMPUTER READABLE FORM:
12 MEDIUM TYPE: Floppy disk
13 COMPUTER: IBM PC compatible
14 OPERATING SYSTEM: PC-DOS/MS-DOS
15 SOFTWARE: PatentIn Release #1.0, Version #1.25
16 CURRENT APPLICATION DATA:
17 APPLICATION NUMBER: US/08/290,448A
18 FILING DATE: August 15, 1994
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: US 07/529,951
21 FILING DATE: May 29, 1990
22 APPLICATION NUMBER: US 07/125,165
23 FILING DATE: March 17, 1989
24 ATTORNEY/AGENT INFORMATION:
25 NAME: Amy E. Mandragouras
26 REGISTRATION NUMBER: 36,207
27 REFERENCE/DOCKET NUMBER: IM1-0180N
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE: (617)227-7400
30 TELEFAX: (617)227-5941
31 INFORMATION FOR SEQ ID NO: 12:
32 SEQUENCE CHARACTERISTICS:
33 LENGTH: 45 amino acids
34 TYPE: amino acid
35 TOPOLOGY: linear
36 MOLECULE TYPE: peptide
37 FRAGMENT TYPE: interna.
38 US-08-290-448A.12

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Query Match      73.7%  Score 84;  DB 1;  Length 45;
Best Local Similarity 73.7%  Pred. No. 4.9e-06;
Matches 14;  Conservative 2;  Mismatches 3;  Indels 0;  Gaps 0;

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QY      2 NNNYDPMISIVAGGSSNPT 20
DB      12 NNNYDKGSGYAIGGSASPT 30

```

```

RESULT 15
US-08-230-448A.12
1  Sequence 12, Application US/08230-448A
2  Patent No. 5698204
3  GENERAL INFORMATION:
4  APPLICANT: Rogers, Bruce
5  APPLICANT: Klapper, David G.
6  APPLICANT: Rafnar, Thorunn
7  APPLICANT: Kuo, Mei-chang
8  TITLE OF INVENTION: Allergenic Proteins From Patweed and Uses
9  NUMBER OF SEQUENCES: 93
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: LAHIVE & COCKFIELD
12 STREET: 60 State Street, suite 510
13 CITY: Boston
14 STATE: Massachusetts
15 COUNTRY: USA
16 ZIP: 02109-1875
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE: Floppy disk
19 COMPUTER: IBM PC compatible
20 OPERATING SYSTEM: PC-DOS/MS-DOS
21 SOFTWARE: PatentIn Release #1.0, Version #1.25
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER: US/08/290,448A

```

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1  FILING DATE: August 15, 1994
2  PRIOR APPLICATION DATA:
3  APPLICATION NUMBER: US 07/529,951
4  FILING DATE: May 29, 1990
5  APPLICATION NUMBER: US 07/125,165
6  FILING DATE: March 17, 1989
7  ATTORNEY/AGENT INFORMATION:
8  NAME: Amy E. Mandragouras
9  REGISTRATION NUMBER: 36,207
10 REFERENCE/DOCKET NUMBER: IM1-0180N
11 TELECOMMUNICATION INFORMATION:
12 TELEPHONE: (617)227-7400
13 TELEFAX: (617)227-5941
14 INFORMATION FOR SEQ ID NO: 12:
15 SEQUENCE CHARACTERISTICS:
16 LENGTH: 45 amino acids
17 TYPE: amino acid
18 TOPOLOGY: linear
19 MOLECULE TYPE: peptide
20 FRAGMENT TYPE: interna.
21 US-08-290-448A.12

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Query Match      73.7%  Score 84;  DB 1;  Length 45;
Best Local Similarity 73.7%  Pred. No. 4.9e-06;
Matches 14;  Conservative 2;  Mismatches 3;  Indels 0;  Gaps 0;

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QY      2 NNNYDPMISIVAGGSSNPT 20
DB      12 NNNYDKGSGYAIGGSASPT 30

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Search completed: October 24, 2003, 09:55:32
Job time : 12.4 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:50:14 ; Search time 19.75 Seconds  
(without alignments)  
169,580 Million cell updates/sec

Title: US-09-202-464-29

Perfect score: 101

Sequence: 1 ILSEGNSTAPNDSCKEVT 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

- 1: /cgn2\_6/prodata/1/pubaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/prodata/1/pubaa/PC7\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/prodata/1/pubaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/prodata/1/pubaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/prodata/1/pubaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/prodata/1/pubaa/PCUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/prodata/1/pubaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/prodata/1/pubaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/prodata/1/pubaa/US09\_PUBCOMB.pep.\*
- 10: /cgn2\_6/prodata/1/pubaa/US09\_PUBCOMB.pep.\*
- 11: /cgn2\_6/prodata/1/pubaa/US09\_PUBCOMB.pep.\*
- 12: /cgn2\_6/prodata/1/pubaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/prodata/1/pubaa/US10\_PUBCOMB.pep.\*
- 14: /cgn2\_6/prodata/1/pubaa/US10\_PUBCOMB.pep.\*
- 15: /cgn2\_6/prodata/1/pubaa/US10\_PUBCOMB.pep.\*
- 16: /cgn2\_6/prodata/1/pubaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/prodata/1/pubaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/prodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	101	100.0	375	11	US-09-847-208-58
2	88	87.1	346	11	US-09-847-208-67
3	85	84.2	374	11	US-09-847-208-68
4	83	82.2	367	11	US-09-847-208-109
5	67	66.3	15	12	US-10-354-240-67
6	62	61.4	15	12	US-10-354-240-68
7	57	56.4	396	11	US-09-847-208-13
8	56	55.4	398	11	US-09-847-208-14
9	54	53.5	397	11	US-09-847-208-15
10	50	49.5	397	11	US-09-847-208-17
11	48	47.5	15	12	US-10-354-240-66
12	45	44.6	387	11	US-09-991-138-2
13	45	44.6	387	11	US-09-991-138-7
14	45	44.6	387	11	US-09-991-138-8
15	45	44.6	387	11	US-09-991-138-9

16	45	44.6	347	11	US-09-991-138-11	Sequence 11, App.
17	45	44.6	387	14	US-10-037-677-4	Sequence 4, App.1
18	44	43.6	588	10	US-09-601-368-46	Sequence 46, App.
19	43	42.6	333	12	US-10-040-895-8	Sequence 8, App.1
20	43	42.6	440	15	US-10-128-714-3232	Sequence 3232, App
21	43	42.6	475	15	US-10-128-714-8232	Sequence 8232, App
22	42	41.6	334	12	US-10-205-154-51	Sequence 51, App.
23	42	41.6	334	12	US-10-316-253-293	Sequence 293, App.
24	42	41.6	385	11	US-09-991-138-12	Sequence 12, App.
25	42	41.6	7257	14	US-10-014-717-5	Sequence 5, App.1
26	41	40.6	118	15	US-10-226-007-32	Sequence 32, App.
27	41	40.6	357	11	US-09-308-207-37	Sequence 37, App.
28	41	40.6	387	11	US-09-991-138-10	Sequence 10, App.
29	41	40.6	382	11	US-09-847-208-16	Sequence 16, App.
30	41	40.6	753	12	US-10-137-870-204	Sequence 204, App
31	41	40.6	753	12	US-10-140-018-204	Sequence 204, App
32	41	40.6	753	12	US-10-140-021-204	Sequence 204, App
33	41	40.6	753	12	US-10-140-274-204	Sequence 204, App
34	41	40.6	753	12	US-10-140-471-204	Sequence 204, App
35	41	40.6	753	12	US-10-140-807-204	Sequence 204, App
36	41	40.6	790	12	US-10-140-922-204	Sequence 204, App
37	41	40.6	790	12	US-10-140-924-204	Sequence 204, App
38	41	40.6	790	12	US-10-140-926-204	Sequence 204, App
39	41	40.6	790	12	US-10-141-698-204	Sequence 204, App
40	41	40.6	790	12	US-10-141-702-204	Sequence 204, App
41	40.6	790	12	US-10-141-704-204	Sequence 204, App	
42	41	40.6	790	12	US-10-142-421-204	Sequence 204, App
43	41	40.6	790	12	US-10-142-432-204	Sequence 204, App
44	41	40.6	790	12	US-10-142-767-204	Sequence 204, App
45	41	40.6	790	12	US-10-143-033-204	Sequence 204, App

## ALIGNMENTS

RESULT 1  
US-09-847-208 58  
; Sequence 58, Application US/09847208  
; Publication No. US20010002190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: US67,002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 58  
; LENGTH: 375  
; TYPE: PRT  
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)  
US-09-847-208-58

Query Match 100.0%; Score 101; DB 11; Length 375;  
Best Local Similarity 100.0%; Pred. No. 2,3e-08;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSCKEVT 20

DB 282 ILSEGNSTAPNDSCKEVT 30;

## RESULT 2

US-09-847-208-67  
; Sequence 67, Application US/09847208  
; Publication No. US200300082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; PRIORITY FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 346  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 US-09-847-208-67

Query Match 87.1%; Score 88; DB 1; Length 346;  
 Best Local Similarity 90.0%; Pred. No. 2.9e-06;  
 Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSKKEVT 20

DB 261 ILSEGNSTAPNDSKKEVT 280

# RESULT 3

US-09-847-208-68  
 ; Sequence 68, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daoheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; PRIORITY FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 374  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica (Japanese cedar)  
 US-09-847-208-68

Query Match 84.2%; Score 85; DB 1; Length 374;  
 Best Local Similarity 85.0%; Pred. No. 9.7e-06;  
 Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSKKEVT 20

DB 282 ILSEGNSTAPNDSKKEVT 30;

# RESULT 4

US-09-847-208-109  
 ; Sequence 109, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daoheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; PRIORITY FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 367  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Czark white cedar)  
 US-09-847-208-109

Query Match 82.1%; Score 83; DB 1; Length 367;  
 Best Local Similarity 85.0%; Pred. No. 9e-05;  
 Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSKKEVT 20

DB 282 ILSEGNSTAPNDSKKEVT 30;

# RESULT 5

US-10-354-240-67  
 ; Sequence 67, Application US/010354240  
 ; Publication No. US2003014947A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akimichi  
 ; APPLICANT: Cairiki, Kazuo  
 ; APPLICANT: Iwata, Akiko  
 ; APPLICANT: Kuro, Kazuhiko  
 ; TITLE OF INVENTION: Polypeptide Based Immunotherapeutic Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SPO 10101  
 ; CURRENT APPLICATION NUMBER: US/10/354.240  
 ; PRIORITY FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP99/00240  
 ; PRIOR FILING DATE: 1999-01-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1  
 ; SEQ ID NO 67  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: VISC PLATE  
 ; LOCATION: 11, 118  
 ; OTHER INFORMATION: Cyt1; Figure 1, Row 53  
 US-10-354-240-67

Query Match 82.1%; Score 87; DB 1; Length 15;  
 Best Local Similarity 92.9%; Pred. No. 0.00021;  
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDS 14

DB 1 ILSEGNSTAPNDS 14

# RESULT 6

US-10-354-240-68  
 ; Sequence 68, Application US/010354240  
 ; Publication No. US2003014947A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akimichi  
 ; APPLICANT: Cairiki, Kazuo  
 ; APPLICANT: Iwata, Akiko  
 ; APPLICANT: Kuro, Kazuhiko  
 ; TITLE OF INVENTION: Polypeptide Based Immunotherapeutic Agent for Treating Allergic Dis  
 ; FILE REFERENCE: SPO 10101  
 ; CURRENT APPLICATION NUMBER: US/10/354.240  
 ; PRIORITY FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP99/00240  
 ; PRIOR FILING DATE: 1999-01-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1  
 ; SEQ ID NO 68  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:

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; NAME/KEY: MISC_FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: CRY11 peptide, Figure 1, Row 54
US-10-354-240-68

Query Match      61.4% Score 62; DB 12; Length 15;
Best Local Similarity 80.0%; Pred. No. 0.014;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      6 NSFTAPNSDKKEVT 20
      |||||:|:|:|:|
DB      1 NSFTAPNSYKKQVT 15

RESULT 7
; Sequence 13, Application US/C9847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/C9/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short tagweed)
US-09-847-208-13

Query Match      56.4% Score 57; DB 11; Length 396;
Best Local Similarity 57.9%; Pred. No. 0.41;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      1 ILSEGNSTAPNSDKKEV 19
      |||||:|:|:|:|
DB      305 ILSGNRFAPDSKKNV 323

RESULT 8
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short tagweed)
US-09-847-208-14

Query Match      55.4% Score 56; DB 11; Length 398;
Best Local Similarity 63.2%; Pred. No. 0.59;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      1 ILSEGNSTAPNSDKKEV 19
      |||||:|:|:|:|
DB      307 ILSGNRFAPDSKKNV 325

```

```

RESULT 9
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short tagweed)
US-09-847-208-15

Query Match      53.5% Score 54; DB 11; Length 397;
Best Local Similarity 57.9%; Pred. No. 1.3;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY      1 ILSEGNSTAPNSDKKEV 19
      |||||:|:|:|:|
DB      304 ILSGNRFAPDSKKNV 324

RESULT 10
US-09-847-208-17
; Sequence 17, Application US/C9847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/C9/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short tagweed)
US-09-847-208-17

Query Match      49.5% Score 50; DB 11; Length 397;
Best Local Similarity 57.9%; Pred. No. 5.7;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY      1 ILSEGNSTAPNSDKKEV 19
      |||||:|:|:|:|
DB      306 ILSGNRFAPDSKKNV 324

RESULT 11
US-10-354-240-66
; Sequence 66, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sore, Toshio
; APPLICANT: Kure, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwata, Akiko
; APPLICANT: King, Katsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis-
; FILE REFERENCE: SPO 103A1

```

```

? CURRENT APPLICATION NUMBER: US/10/354,240
? CURRENT FILING DATE: 2003-01-29
? PRIOR APPLICATION NUMBER: PCT/JP97/00140
? PRIOR FILING DATE: 1997-03-10
? PRIOR APPLICATION NUMBER: US 09/142,524
? PRIOR FILING DATE: 1998-09-09
? NUMBER OF SEQ ID NOS: 174
? SOFTWARE: Patent in version 3.1
? SEQ ID NO 66
? LENGTH: 15
? TYPE: PRT
? ORGANISM: Cryptosporidia japonica
? FEATURES:
? NAME/KEY: MISC FEATURE
? LOCATION: (1)..(15)
? OTHER INFORMATION: Cys11 peptide, Figure 1, Row 52
US-10-354-240-66

```

```

Query Match      47.5% Score 48, DP 12, Length 16,
Best Local Similarity 100.0% Pred. No. 3,27,
Matches 10, Conservative 0, Mismatches 0, Gaps 0;

```

```

OY 1 ILSEGNSTFA 10
    |||||..||
Db 6 ILSEGNSTFA 15

```

```

RESULT 12
US-09-991-138-2
? Sequence 2, Application US/09991138
? Publication No. US20030040091A1
? GENERAL INFORMATION:
? APPLICANT: Trimbur, Donald E.
? APPLICANT: Whited, Gregory M.
? APPLICANT: Selifonova, Olga V.
? TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
? FILE REFERENCE: GC580-2D1
? CURRENT APPLICATION NUMBER: US/09/991,138
? CURRENT FILING DATE: 2001-11-16
? PRIOR APPLICATION NUMBER: US 09/570,778
? PRIOR FILING DATE: 2000-05-14
? PRIOR APPLICATION NUMBER: US 60/134,868
? PRIOR FILING DATE: 1999-05-19
? NUMBER OF SEQ ID NOS: 12
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 2
? LENGTH: 387
? TYPE: PRT
? ORGANISM: Escherichia blattae
US-09-991-138-2

```

```

Query Match      44.6% Score 45, DP 11, Length 187,
Best Local Similarity 38.9% Pred. No. 37,
Matches 7, Conservative 6, Mismatches 5, Indels 0, Gaps 0;

```

```

OY 2 LSEGNSTAPNDSKKEV 19
    ..|||..||..|||
Db 362 LKDGNAFSPKNGNEKEI 379

```

```

RESULT 13
US-09-991-138-7
? Sequence 7, Application US/09991138
? Publication No. US20030040091A1
? GENERAL INFORMATION:
? APPLICANT: Trimbur, Donald E.
? APPLICANT: Whited, Gregory M.
? APPLICANT: Selifonova, Olga V.
? TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
? FILE REFERENCE: GC580-2D1
? CURRENT APPLICATION NUMBER: US/09/991,138
? CURRENT FILING DATE: 2001-11-16
? PRIOR APPLICATION NUMBER: US 09/570,778

```

```

? PRIOR FILING DATE: 2000-05-14
? PRIOR APPLICATION NUMBER: US 60/134,868
? PRIOR FILING DATE: 1999-05-19
? NUMBER OF SEQ ID NOS: 12
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 7
? LENGTH: 387
? TYPE: PRT
? ORGANISM: Escherichia blattae
US-09-991-138-7

```

```

Query Match      44.6% Score 45, DP 11, Length 187,
Best Local Similarity 38.9% Pred. No. 37,
Matches 7, Conservative 6, Mismatches 5, Indels 0, Gaps 0;

```

```

OY 2 LSEGNSTAPNDSKKEV 19
    ..|||..||..|||
Db 362 LKDGNAFSPKNGNEKEI 379

```

```

RESULT 14
US-09-991-138-8
? Sequence 8, Application US/09991138
? Publication No. US20030040091A1
? GENERAL INFORMATION:
? APPLICANT: Trimbur, Donald E.
? APPLICANT: Whited, Gregory M.
? APPLICANT: Selifonova, Olga V.
? TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
? FILE REFERENCE: GC580-2D1
? CURRENT APPLICATION NUMBER: US/09/991,138
? CURRENT FILING DATE: 2001-11-16
? PRIOR APPLICATION NUMBER: US 09/570,778
? PRIOR FILING DATE: 2000-05-14
? PRIOR APPLICATION NUMBER: US 60/134,868
? PRIOR FILING DATE: 1999-05-19
? NUMBER OF SEQ ID NOS: 12
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 8
? LENGTH: 387
? TYPE: PRT
? ORGANISM: Escherichia blattae
US-09-991-138-8

```

```

Query Match      44.6% Score 45, DP 11, Length 187,
Best Local Similarity 38.9% Pred. No. 37,
Matches 7, Conservative 6, Mismatches 5, Indels 0, Gaps 0;

```

```

OY 2 LSEGNSTAPNDSKKEV 19
    ..|||..||..|||
Db 362 LKDGNAFSPKNGNEKEI 379

```

```

RESULT 15
US-09-991-138-9
? Sequence 9, Application US/09991138
? Publication No. US20030040091A1
? GENERAL INFORMATION:
? APPLICANT: Trimbur, Donald E.
? APPLICANT: Whited, Gregory M.
? APPLICANT: Selifonova, Olga V.
? TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
? FILE REFERENCE: GC580-2D1
? CURRENT APPLICATION NUMBER: US/09/991,138
? CURRENT FILING DATE: 2001-11-16
? PRIOR APPLICATION NUMBER: US 09/570,778
? PRIOR FILING DATE: 2000-05-14
? PRIOR APPLICATION NUMBER: US 60/134,868
? PRIOR FILING DATE: 1999-05-19
? NUMBER OF SEQ ID NOS: 12
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 9
? LENGTH: 387

```

```

; TYPE: PRT
; ORGANISM: Escherichia blattae
US-09-991-138 9
Query Match      44.6%   Score 45; DB 11; Length 187;
Best Local Similarity 38.9%; Pident No. 17;
Matches 7; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY      2 LSEGNSTAPNDSKKKEV 19
Db      362 LKGNAFSPRKGNKEI 379

```

Search completed: October 23, 2003, 11:01:59  
Job time : 20.75 secs



US-08-467-023-52

Query Match 84.2%; Score 85; DB 3; Length 90;  
Best Local Similarity 85.0%; Pred. No. 1.9e-06;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNSDKKEVT 20  
DB 1 ILSEGNSTAPNSYKQVT 20

RESULT 2

US-08-467-023-64  
Sequence 64, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-wei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.05  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 38/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,972  
REFERENCE/DOCKET NUMBER: 025, 6 US02 INT-028-022  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-2400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 90 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-64

Query Match 84.2%; Score 85; DB 3; Length 90;  
Best Local Similarity 85.0%; Pred. No. 1.9e-06;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNSDKKEVT 20  
DB 1 ILSEGNSTAPNSYKQVT 20

RESULT 3

US-08-467-023-64  
Sequence 64, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-wei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.05  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 38/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,972  
REFERENCE/DOCKET NUMBER: 025, 6 US02 INT-028-022  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-2400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 90 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-467-023-64

Query Match 84.2%; Score 85; DB 3; Length 90;  
Best Local Similarity 85.0%; Pred. No. 1.9e-06;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNSDKKEVT 20  
DB 1 ILSEGNSTAPNSYKQVT 20

RESULT 4

US-08-467-023-96  
Sequence 96, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian P.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-wei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.

```

: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: TITLE OF INVENTION: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/457,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (MI-028CPD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 95:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 367 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-467-023-95

Query Match 79.2%; Score 80; DB 3; Length 367;
Best Local Similarity 80.0%; Pred. No. 3.6e-35;
Matches 16; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 IISGNSFTAPNDSSKKEVT 20
| | | | | | | | | | | | | | | | | | | | |
Db 282 IISGNSFTAPSESVKKQVT 301

RESULT 5
US-08-467-023-97
: Sequence 97, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: TITLE OF INVENTION: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible

```

```

: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/457,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (MI-028CPD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 95:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 370 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-467-023-97

Query Match 74.3%; Score 75; DB 3; Length 370;
Best Local Similarity 75.0%; Pred. No. 0.5e-23;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IISGNSFTAPNDSSKKEVT 20
| | | | | | | | | | | | | | | | | | | | |
Db 282 IISGNSFTAPSESVKKQVT 161

RESULT 6
US-08-290-448A-72
: Sequence 72, Application US/08290448A
: Patent No. 5676954
: GENERAL INFORMATION:
: APPLICANT: Rogers, Bruce
: APPLICANT: Klapper, David G.
: APPLICANT: Rainat, Thorunn
: APPLICANT: Kuo, Mei-Chang
: TITLE OF INVENTION: Allergenic Proteins From Radweed and Usnea
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: IAHIVE & COCKFIELD
: STREET: 60 State Street, suite 510
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109-1875
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/290,448A
: FILING DATE: August 15, 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/529,451
: FILING DATE: May 29, 1990
: APPLICATION NUMBER: US 07/325,365
: FILING DATE: March 17, 1989
: ATTORNEY/AGENT INFORMATION:
: NAME: Amy E. Mandragouras
: REGISTRATION NUMBER: 36,207
: REFERENCE/DOCKET NUMBER: IM-0180N
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 72:
: SEQUENCE CHARACTERISTICS:

```





```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/461,939B
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/464,000
; FILING DATE: 05-JUN-1995
; APPLICATION NUMBER: US 08/230,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CNDV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 72:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 387 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-461-939B-72

Query Match 56.4%; Score 57; DB 4; Length 387;
Best Local Similarity 57.9%; Pred. No. 0.21;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Oy 1 ILSEGNSTAPNDSDKEY 19
|||:|:|:|:|
Db 296 ILSQGNRFCDPDSRSKNV 314

RESULT 10
US-08-464-000-72
; Sequence 72, Application US/08464000
; Patent No. 6335020
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-Chang
; TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/464,000
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/290,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CNDV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 72:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 387 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-464-000-72

Query Match 56.4%; Score 57; DB 4; Length 387;
Best Local Similarity 57.9%; Pred. No. 0.21;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Oy 1 ILSEGNSTAPNDSDKEY 19
|||:|:|:|:|
Db 296 ILSQGNRFCDPDSRSKNV 314

RESULT 11
US-08-290-448A-74
; Sequence 74, Application US/08290448A
; Patent No. 5636954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-Chang
; TITLE OF INVENTION: Allergenic Peptides from Ragweed and Yucca
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CNDV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 74:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 398 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-290-448A-74

Query Match 55.4%; Score 56; DB 1; Length 398;
Best Local Similarity 63.2%; Pred. No. 0.31;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

```

QY 1 ILSEGNSTAPNDSKKEV 13  
 Db 107 ILSQNREFFAPDIIKKNV 325

## RESULT 12

US-08-290-448A-74  
 ; Sequence 74, Application US/08290448A  
 ; Patent No. 5698204  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-chang  
 ; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 State Street, Suite 510  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: IBM PC compatible  
 ; SOFTWARE: Patent in Release #1.0, Version #1.05  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/290,448A  
 ; FILING DATE: August 15, 1994  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/529,951  
 ; FILING DATE: May 29, 1990  
 ; APPLICATION NUMBER: US 07/325,365  
 ; FILING DATE: March 17, 1989  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Amy E. Madragouras  
 ; REGISTRATION NUMBER: 36,207  
 ; REFERENCE/DOCKET NUMBER: IMI-019CN  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400  
 ; TELEFAX: (617)227-5941  
 ; INFORMATION FOR SEQ ID NO: 74:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 398 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-290-448A-74

Query Match 55.4%; Score 56; DB 1; Length 398;  
 Best Local Similarity 63.2%; Pct Id 0.31;  
 Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSKKEV 19  
 Db 307 ILSQNREFFAPDIIKKNV 325

## RESULT 13

US-08-175-069A-74  
 ; Sequence 74, Application US/08175069A  
 ; Patent No. 5776762  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-chang  
 ; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patent in Release #1.0, Version #1.05  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/290,448A  
 FILING DATE: August 15, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Madragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-019CN  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 74:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 398 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-175-069A-74

Query Match 55.4%; Score 56; DB 1; Length 398;  
 Best Local Similarity 63.2%; Pct Id 0.31;  
 Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSKKEV 19  
 Db 307 ILSQNREFFAPDIIKKNV 325

RESULT 14  
 US-08-461-939B-74  
 ; Sequence 74, Application US/08461939B  
 ; Patent No. 6155019  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-chang  
 ; TITLE OF INVENTION: Methods For Creating Sensitivity To A  
 ; TITLE OF INVENTION: Protein Allergens Using Peptides Which Include A T Cell Epitope  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ; STREET: 60 State Street  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/461,939B  
 ; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/464,000  
 ; FILING DATE: 05-JUN-1995  
 ; APPLICATION NUMBER: US 08/290,448

FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-019QNEV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)42-4214  
 INFORMATION FOR SEQ ID NO: 74:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 398 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-461-939b-74

Query Match 55.4%; Score 56; DB 4; Length 398;  
 Best Local Similarity 63.2%; Pred. No. 0.31;  
 Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 ILSEGNFTAPNDSRKEV 19

Db 307 LSCGNRFTAPDDIRKNV 325

RESULT 15

US-08-464 000-74  
 ? Sequence 74, Application US/08464000  
 ? Patent No. 6335020  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Rogers, Bruce  
 ? APPLICANT: Klapper, David G.  
 ? APPLICANT: Rafnar, Thorunn  
 ? APPLICANT: Kuo, Mei-Chang  
 ? TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
 ? NUMBER OF SEQUENCES: 93  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ? STREET: 60 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/464,000  
 ? FILING DATE: 05-JUN-1995  
 ? PRIOR APPLICATION DATA:  
 ? APPLICATION NUMBER: US 08/290,448  
 ? FILING DATE: 15-AUG-1994  
 ? APPLICATION NUMBER: US 07/529,951  
 ? FILING DATE: 29-MAY-1990  
 ? APPLICATION NUMBER: US 07/325,365  
 ? FILING DATE: 17-MAR-1989  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Amy E. Mandragouras  
 ? REGISTRATION NUMBER: 36,207  
 ? REFERENCE/DOCKET NUMBER: IMI-018CN2  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617)227-7400  
 ? TELEFAX: (617)227-5941  
 ? INFORMATION FOR SEQ ID NO: 74:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 398 amino acids  
 ? TYPE: amino acid

? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 US-08-464-000-74  
 Query Match 55.4%; Score 56; DB 4; Length 398;  
 Best Local Similarity 63.2%; Pred. No. 0.31;  
 Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 ILSEGNFTAPNDSRKEV 19

Db 307 LSCGNRFTAPDDIRKNV 325

Search Completed: October 23, 2003, 09:56:32  
 Job time: 13.4 min

GenCore version 5.1.6  
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OM protein - protein search, using sw mode.

Run on: October 23, 2003, 11:02:03 : Search time 30.4 seconds  
(without alignments)  
110.121 Million cell updates/sec

Title: US-09-202-464-32

Perfect score: 119

Sequence: 1 CANWWRSTQDSFNNGAYFV 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:  
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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:  
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6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:  
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9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:  
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11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:  
12: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	119	100.0	375	11	US-09-847-208-59
2	106	89.1	346	11	US-09-847-208-67
3	103	86.6	367	11	US-09-847-208-109
4	98	82.4	374	11	US-09-847-208-68
5	71	59.7	15	12	US-10-354-240-73
6	67	56.3	15	12	US-10-354-240-74
7	67	56.3	392	11	US-09-847-208-16
8	57	47.9	15	12	US-10-354-240-72
9	57	47.9	397	11	US-09-847-208-15
10	55	46.2	396	11	US-09-847-208-13
11	53	44.5	397	11	US-09-847-208-17
12	52	43.7	398	11	US-09-847-208-14
13	46	38.7	378	15	US-10-213-990-57
14	45	37.8	564	15	US-10-156-761-12170
15	44	37.0	200	15	US-10-226-715-4

16	44	37.0	200	15	US-10-156-761-13222
17	44	37.0	502	11	US-09-844-948-5
18	44	37.0	502	14	US-10-082-960-16
19	44	37.0	1021	9	US-09-815-242-5471
20	44	37.0	1021	9	US-09-815-242-12544
21	43	36.1	294	12	US-10-336-597-5
22	43	36.1	311	15	US-10-144-712-282
23	43	36.1	463	15	US-10-156-761-10301
24	43	36.1	491	9	US-09-770-621-8
25	43	36.1	662	15	US-10-038-808-3
26	42.5	35.7	205	9	US-09-970-711-34
27	42	35.3	305	15	US-10-156-761-11994
28	42	35.3	415	9	US-09-854-549-9
29	42	35.3	415	15	US-10-132-634-2
30	42	35.3	654	10	US-09-862-027-30
31	42	35.3	941	12	US-10-032-595-7545
32	41.5	34.9	212	9	US-09-631-4975-19
33	41.5	34.9	324	9	US-09-327-461-7
34	41.5	34.9	464	12	US-10-384-931-9
35	41.5	34.9	464	15	US-10-216-494-9
36	41	34.5	15	12	US-10-354-240-75
37	41	34.5	21	10	US-09-962-445-4
38	41	34.5	64	10	US-09-796-592-1792
39	41	34.5	64	10	US-09-796-592-2056
40	41	34.5	64	15	US-10-040-962-792
41	41	34.5	64	15	US-10-040-962-2056
42	41	34.5	44	9	US-09-864-761-42329
43	41	34.5	118	9	US-09-825-544-83
44	41	34.5	197	15	US-10-156-761-10222
45	41	34.5	495	9	US-09-815-242-13264

## ALIGNMENTS

RESULT 1  
US-09-847-208-59  
Sequence 58, Application US/09847208  
Publication No. US20030062190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhu, Daoheng  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: US67,002A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 58  
TYPE: PRT  
ORGANISM: Chlamydomonas reinhardtii (Japanese Cypress)  
US-09-847-208-59

Query Match 100.0% Score 113 DB 11 Length 375  
Best Local Similarity 100.0% Pctd No. 10-09  
Matches 20 Conservative 0 Mismatches 0 Indels 0

QY 1 CANWWRSTQDSFNNGAYFV 20  
DB 312 CANWWRSTQDSFNNGAYFV 311

RESULT 2  
US-09-847-208-67  
Sequence 67, Application US/09847208  
Publication No. US20030062190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhu, Daoheng

1 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
2 TITLE OF INVENTION: 19E-MEDIATED ALLERGIC DISEASES  
3 FILE REFERENCE: UC67.002A  
4 CURRENT APPLICATION NUMBER: US/09/847.208  
5 NUMBER OF SEQ ID NOS: 177  
6 SOFTWARE: FastSeq for Windows Version 4.0  
7 SEQ ID NO 67  
8 LENGTH: 346  
9 TYPE: PRT  
10 ORGANISM: Cupressus arizonica  
11 US-09-847-208-67

Query Match 89.1% Score 106; DR 11; Length 346;  
Best Local Similarity 85.0%; Pred. No. 2e 07;  
Matches 17; Conservative 2; Mismatches 1; Indels 3; Gaps 0;

QY 1 CANWVRSTQSPFNGAYEV 20  
DB 20: CANWVRSTQSPFNGAYEV 310

## RESULT 3

1 US-09-847-208-109  
2 Sequence 109, Application US/09847208  
3 Publication No. US20030082190A1  
4 GENERAL INFORMATION:  
5 APPLICANT: Saxon, Andrew  
6 APPLICANT: Zhang, Ke  
7 APPLICANT: Zhu, Daocheng  
8 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
9 TITLE OF INVENTION: 19E-MEDIATED ALLERGIC DISEASES  
10 FILE REFERENCE: UC67.002A  
11 CURRENT APPLICATION NUMBER: US/09/847.208  
12 CURRENT FILING DATE: 2001-05-01  
13 NUMBER OF SEQ ID NOS: 177  
14 SOFTWARE: FastSeq for Windows Version 4.0  
15 SEQ ID NO 109  
16 LENGTH: 167  
17 TYPE: PRT  
18 ORGANISM: Juniperus ashei (Zack white cedar)  
19 US-09-847-208-109

Query Match 86.6% Score 101; DR 11; Length 367;  
Best Local Similarity 85.0%; Pred. No. 5.0e-07;  
Matches 17; Conservative 2; Mismatches 1; Indels 3; Gaps 0;

QY 1 CANWVRSTQSPFNGAYEV 20  
DB 312 CANWVRSTQSPFNGAYEV 311

## RESULT 4

1 US-09-847-208-68  
2 Sequence 68, Application US/09847208  
3 Publication No. US20030082190A1  
4 GENERAL INFORMATION:  
5 APPLICANT: Saxon, Andrew  
6 APPLICANT: Zhang, Ke  
7 APPLICANT: Zhu, Daocheng  
8 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
9 TITLE OF INVENTION: 19E-MEDIATED ALLERGIC DISEASES  
10 FILE REFERENCE: UC67.002A  
11 CURRENT APPLICATION NUMBER: US/09/847.208  
12 CURRENT FILING DATE: 2001-05-01  
13 NUMBER OF SEQ ID NOS: 177  
14 SOFTWARE: FastSeq for Windows Version 4.0  
15 SEQ ID NO 68  
16 LENGTH: 374  
17 TYPE: PRT  
18 ORGANISM: Cryptomeria japonica (Japanese cedar)  
19 US-09-847-208-68

Query Match 92.4% Score 227; DR 12; Length 374;  
Best Local Similarity 86.1%; Pred. No. 1e-06;  
Matches 16; Conservative 2; Mismatches 2; Indels 3; Gaps 0;

QY 1 CANWVRSTQSPFNGAYEV 20  
DB 312 CSNWVWSTQSPFNGAYEV 181

## RESULT 5

1 US-10-354-240-71  
2 Sequence 71, Application US/10034471  
3 Publication No. US20030082190A1  
4 GENERAL INFORMATION:  
5 APPLICANT: Sose, Toshio  
6 APPLICANT: Kure, Akio  
7 APPLICANT: Ohtsuka, Kazuo  
8 APPLICANT: Ikawa, Akio  
9 APPLICANT: Kuro, Kenzo  
10 TITLE OF INVENTION: Peptide Pases Immunotherapeutic Agent for Treating Allergic Type  
11 FILE REFERENCE: SPO 1001  
12 CURRENT APPLICATION NUMBER: US/10/154.240  
13 PRIOR FILING DATE: 2001-01-29  
14 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
15 PRIOR FILING DATE: 1997-01-10  
16 PRIOR APPLICATION NUMBER: US 09/147,524  
17 PRIOR FILING DATE: 1998-09-09  
18 NUMBER OF SEQ ID NOS: 174  
19 SOFTWARE: Patent in version 3.1  
20 SEQ ID NO 71  
21 LENGTH: 15  
22 TYPE: PRT  
23 ORGANISM: Cryptomeria japonica  
24 FEATURE:  
25 NAME/KEY: VISC FEATURE  
26 LOCATION: 13-115  
27 OTHER INFORMATION: Cyt11 peptide, Figure 1, Row 59  
28 US-10-354-240-71

Query Match 59.0% Score 71; DR 12; Length 16;  
Best Local Similarity 71.3%; Pred. No. 0.0011;  
Matches 1; Conservative 2; Mismatches 2; Indels 3; Gaps 0;

QY 1 CANWVRSTQSPFNGAYEV 15  
DB 1 CSNWVWSTQSPFNGAYEV 15

## RESULT 6

1 US-10-354-240-71  
2 Sequence 71, Application US/10034471  
3 Publication No. US20030082190A1  
4 GENERAL INFORMATION:  
5 APPLICANT: Sose, Toshio  
6 APPLICANT: Kure, Akio  
7 APPLICANT: Ohtsuka, Kazuo  
8 APPLICANT: Ikawa, Akio  
9 APPLICANT: Kuro, Kenzo  
10 TITLE OF INVENTION: Peptide Pases Immunotherapeutic Agent for Treating Allergic Type  
11 FILE REFERENCE: SPO 1001  
12 CURRENT APPLICATION NUMBER: US/10/154.240  
13 PRIOR FILING DATE: 2001-01-29  
14 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
15 PRIOR FILING DATE: 1997-01-10  
16 PRIOR APPLICATION NUMBER: US 09/147,524  
17 PRIOR FILING DATE: 1998-09-09  
18 NUMBER OF SEQ ID NOS: 174  
19 SOFTWARE: Patent in version 3.1  
20 SEQ ID NO 71  
21 LENGTH: 15  
22 TYPE: PRT  
23 ORGANISM: Cryptomeria japonica  
24 FEATURE:

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; NAME/KEY: MISC_FEATURE
; LOCATION: (1)_(15)
; OTHER INFORMATION: CRYJL peptide, Figure 1, Row 40
US-10-354-240-74

Query Match 56.3%; Score 67; DR 12; Length 15;
Best Local Similarity 80.0%; Pred. No. 0.084;
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 WRSTQDSFNNGAYFV 20
| | | | | | | | | | | | | | |
DB 1 WQSTQDVFNNGAYFV 15

RESULT 7
US-09-847-208-16
; Sequence 16, Application US/C9847208
; Publication No. US20030082192A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daosheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847 208-16

Query Match 56.3%; Score 67; DR 11; Length 192;
Best Local Similarity 66.7%; Pred. No. 0.084;
Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 NWWRSYMDVFNNGAYFV 20
| | | | | | | | | | | | | | |
DB 332 NWWRSYMDVFNNGAYFV 349

RESULT 8
US-10-354-240-72
; Sequence 72, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Zwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US/09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 72
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)_(15)
; OTHER INFORMATION: CRYJL peptide, Figure 1, Row 58
US-10-354-240-72

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; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short: ragweed)
US-09-847-208-17

Query Match: 44.5%; Score 53; DB 11; Length 107;
Best Local Similarity 52.9%; Pred. No. 8.5;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 WWRSTQDSFNGAYFV 20
DB 338 WWRSTQDSFNGAYFV 354
|||||

RESULT 12
US-09-847-208-14
; Sequence 14, Application US/98847209
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847.208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short: ragweed)
US-09-847-208-14

Query Match: 43.7%; Score 52; DB 11; Length 107;
Best Local Similarity 44.4%; Pred. No. 12;
Matches 8; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 3 NWRWSTQDSFNGAYFV 20
DB 338 WWRSTQDSFNGAYFV 355
|||||

RESULT 13
US-10-213-990-57
; Sequence 57, Application US/10213990
; Publication No. US20030082595A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Bussey, Howard
; APPLICANT: Storms, Reg
; APPLICANT: Roemer, Terry
; TITLE OF INVENTION: NUCLEIC ACIDS OF ASPERGILLUS FUMIGATUS ENCODING INDUSTRIAL
; TITLE OF INVENTION: ENZYMES AND METHODS OF USE
; FILE REFERENCE: 10182-019-999
; CURRENT APPLICATION NUMBER: US/10/213.990
; CURRENT FILING DATE: 2002-08-05
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 57
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Aspergillus
US-10-213-990-57

Query Match: 44.5%; Score 46; DB 15; Length 378;
Best Local Similarity 52.9%; Pred. No. 8.5;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 CARKWSTQ 17
DB 358 CARKWSTQ 354
|||||

RESULT 14
US-10-156-761-12170
; Sequence 12170, Application US/020156761
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: AKEDA, HARUO
; APPLICANT: ISHIZAKA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TATSUO
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, YASUHIRO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 243.062
; CURRENT APPLICATION NUMBER: US/020156.761
; CURRENT FILING DATE: 2002-05-09
; PRIOR APPLICATION NUMBER: JP 2000-084083
; PRIOR FILING DATE: 2001-06-10
; PRIOR APPLICATION NUMBER: JP 2001-27492
; PRIOR FILING DATE: 2001-09-07
; NUMBER OF SEQ ID NOS: 14171
; SEQ ID NO 12170
; LENGTH: 644
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12170

Query Match: 42.8%; Score 45; DB 15; Length 564;
Best Local Similarity 47.8%; Pred. No. 1.6e+02;
Matches 9; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4 WWRSTQ 11
DB 49 WWRSTQ 56
|||||

RESULT 15
US-10-226-715-4
; Sequence 4, Application US/10226715
; Publication No. US20030082595A1
; GENERAL INFORMATION:
; APPLICANT: Texas A&M University
; TITLE OF INVENTION: ISOLATION OF STRAINS OF YEASTS INVOLVED IN POSTHARVEST DISEASES
; TITLE OF INVENTION: SCREENING AND METHODS OF USE
; FILE REFERENCE: 010756-7491 TAYLOR 1943
; CURRENT APPLICATION NUMBER: US/10/226.715
; CURRENT FILING DATE: 2002-08-23
; PRIOR APPLICATION NUMBER: 61/114841
; PRIOR FILING DATE: 2001-04-24
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patent version 3.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Saccharum hybrid cultivar CP72 1210
US-10-226-715-4

Query Match: 37.0%; Score 44; DB 15; Length 200;

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Best Local Similarity 40.0%; Pred. No. 87;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;  
QY 2 CANWVRSTQDSFNN 15  
Db 90 CKIW:WCDL:DSFVN 104

Search completed: October 23, 2003, 11:25:46  
Job time : 31.4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:55:37 : Search time 11.8 seconds  
(without alignment)  
71.713 Million cell updates/sec

Title: US-09-202-464-32  
Perfect score: 119  
Sequence: 1 CANWWRSTQDSFNNGAYFV 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 128717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match OK  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:  
1: /cgn2\_6/prodata/2/aa/5A-COMB.pep:  
2: /cgn2\_6/prodata/2/aa/5B-COMB.pep:  
3: /cgn2\_6/prodata/2/aa/6A-COMB.pep:  
4: /cgn2\_6/prodata/2/aa/6B-COMB.pep:  
5: /cgn2\_6/prodata/2/aa/PCTUS-COMB.pep:  
6: /cgn2\_6/prodata/2/aa/backfl.esl.pep:

Pred. No. is the number of results predicted by change to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	86.6	367	3	US-08-467-023-95 Sequence 95, Appl
2	98	82.4	20	3	US-08-467-023-55 Sequence 55, Appl
3	98	82.4	40	3	US-08-467-023-70 Sequence 70, Appl
4	98	82.4	53	3	US-08-467-023-65 Sequence 65, Appl
5	98	82.4	374	3	US-08-467-023-2 Sequence 2, Appl
6	76	63.9	370	3	US-08-467-023-97 Sequence 97, Appl
7	67	56.3	383	1	US-08-290-448A-78 Sequence 78, Appl
8	67	56.3	383	1	US-08-290-448A-78 Sequence 78, Appl
9	67	56.3	383	1	US-08-175-069A-78 Sequence 78, Appl
10	67	56.3	383	4	US-08-461-939B-78 Sequence 78, Appl
11	67	56.3	383	4	US-08-464-000-78 Sequence 78, Appl
12	57	47.9	20	3	US-08-467-023-54 Sequence 54, Appl
13	57	47.9	397	1	US-08-290-448A-76 Sequence 76, Appl
14	57	47.9	397	1	US-08-290-448A-76 Sequence 76, Appl
15	57	47.9	397	1	US-08-175-069A-76 Sequence 76, Appl
16	57	47.9	397	4	US-08-461-939B-76 Sequence 76, Appl
17	57	47.9	397	4	US-08-464-000-76 Sequence 76, Appl
18	55	46.2	387	1	US-08-290-448A-72 Sequence 72, Appl
19	55	46.2	387	1	US-08-290-448A-72 Sequence 72, Appl
20	55	46.2	387	1	US-08-175-069A-72 Sequence 72, Appl
21	55	46.2	387	4	US-08-461-939B-72 Sequence 72, Appl
22	55	46.2	387	4	US-08-464-000-72 Sequence 72, Appl
23	53	44.5	388	1	US-08-290-448A-8C Sequence 80, Appl
24	53	44.5	388	1	US-08-290-448A-8C Sequence 80, Appl
25	53	44.5	388	1	US-08-175-069A-8C Sequence 80, Appl
26	53	44.5	388	4	US-08-461-939B-8C Sequence 80, Appl
27	53	44.5	388	4	US-08-464-000-8C Sequence 80, Appl

28	52	43.7	391	1	US-08-290-448A-59 Sequence 59, Appl
29	52	43.7	391	1	US-08-290-448A-59 Sequence 59, Appl
30	52	43.7	391	1	US-08-175-069A-59 Sequence 59, Appl
31	52	43.7	391	4	US-08-461-939B-59 Sequence 59, Appl
32	52	43.7	391	4	US-08-464-000-59 Sequence 59, Appl
33	52	43.7	391	1	US-08-290-448A-74 Sequence 74, Appl
34	52	43.7	391	1	US-08-290-448A-74 Sequence 74, Appl
35	52	43.7	391	4	US-08-175-069A-74 Sequence 74, Appl
36	52	43.7	391	4	US-08-461-939B-74 Sequence 74, Appl
37	52	43.7	391	4	US-08-464-000-74 Sequence 74, Appl
38	47	39.5	41	1	US-08-290-448A-57 Sequence 57, Appl
39	47	39.5	41	1	US-08-290-448A-61 Sequence 61, Appl
40	47	39.5	41	1	US-08-290-448A-61 Sequence 61, Appl
41	47	39.5	41	1	US-08-175-069A-61 Sequence 61, Appl
42	47	39.5	41	1	US-08-175-069A-61 Sequence 61, Appl
43	47	39.5	41	4	US-08-461-939B-57 Sequence 57, Appl
44	47	39.5	41	4	US-08-461-939B-57 Sequence 57, Appl
45	47	39.5	41	4	US-08-461-939B-61 Sequence 61, Appl

## ALIGNMENTS

RESULT :  
US-09-467-023-95  
Sequence 95, Application US/04467013  
Patent No. 6030184  
GENERAL INFORMATION:  
APPLICANT: Griffiths, Edwin J.  
APPLICANT: Pollock, George  
APPLICANT: Bond, Julian F.  
APPLICANT: Garman, Richard D.  
APPLICANT: Kuo, Mei-Chang  
APPLICANT: Yeung, Si-mei H.  
APPLICANT: Blaser, Andrew  
APPLICANT: Exley, Mark A.  
APPLICANT: Powers, Steven R.  
TITLE OF INVENTION: Allergen Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St.  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS-DOS  
SOFTWARE: Patent Release #1.9, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08-467-023  
FILING DATE: June 6, 1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/010,224  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Pemi, Esq.  
REGISTRATION NUMBER: 38,472  
REFERENCE/DOCKET NUMBER: 025.6 US22 (IM1-025CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5341  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 367 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-467-023-95



```

? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESS: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT-028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 65:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 63 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? FRAGMENT TYPE: internal
? US-08-467-023-65

Query Match 82.4%; Score 99; DB 3; Length 63;
Best Local Similarity 80.0%; Pred. No. 6.5e-06;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

CY 1 CANVWVRSTQDSFNNGAYFV 20
   1:|||||:|||||:|||||
DB 1 CSNWVWQSTQDFVNGAYFV 20

RESULT 5
US-08-467-023-2
? Sequence 2, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffiths, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.;
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872

```

```

? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872
? REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT-028CPD2)
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 227-7400
? TELEFAX: (617) 227-5941
? INFORMATION FOR SEQ ID NO: 65:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 63 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-467-023-2

Query Match 82.4%; Score 99; DB 3; Length 63;
Best Local Similarity 80.0%; Pred. No. 4.6e-07;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

CY 1 CANVWVRSTQDSFNNGAYFV 20
   1:|||||:|||||:|||||
DB 1 CSNWVWQSTQDFVNGAYFV 131

RESULT 6
US-08-467-023-97
? Sequence 97, Application US/08467023
? Patent No. 6090386
? GENERAL INFORMATION:
? APPLICANT: Griffiths, Irwin J.;
? APPLICANT: Pollock, Joanne;
? APPLICANT: Bond, Julian F.;
? APPLICANT: Garman, Richard D.;
? APPLICANT: Kuo, Mei-Chang;
? APPLICANT: Yeung, Siu-mei H.;
? APPLICANT: Brauer, Andrew;
? APPLICANT: Exley, Mark A.;
? APPLICANT: Powers, Steven P.;
? TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
? NUMBER OF SEQUENCES: 261
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
? STREET: 610 Lincoln St
? CITY: Waltham
? STATE: MA
? COUNTRY: USA
? ZIP: 02154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/467,023
? FILING DATE: June 6, 1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/350,225
? FILING DATE: December 6, 1994
? ATTORNEY/AGENT INFORMATION:
? NAME: Jane E. Remillard
? REGISTRATION NUMBER: 38,872

```

REFERENCE/DOCKET NUMBER: 025-6 USD2 (IN: 0287020)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 97:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 370 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-467-023-97

Query Match: 63.9% Score 76; DB 3; Length 383;  
 Best Local Similarity 65.0%; Pred. No. 0.021;  
 Matches 13; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

CY 1 CANWVRSTCDSPNNGAYFV 20  
 DB 311 CDANWVRSTCDSPNNGAYFV 310

## RESULT 7

US-08-290-448A-78  
 Sequence 78, Application US/08290448A

Patent No. 5676954

## GENERAL INFORMATION:

APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 State Street, Suite 510

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,448A

FILING DATE: August 15, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990

APPLICATION NUMBER: US 07/325,165

FILING DATE: March 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragoras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IN: C18CN

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 78:

SEQUENCE CHARACTERISTICS:

LENGTH: 383 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-290-448A-78

Query Match: 56.3% Score 67; DB 1; Length 383;

Best Local Similarity 66.7%; Pred. No. 0.021;

Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

CY 3 NWWRSTCDSPNNGAYFV 20

||| ||| ||| |||

DB 323 NWWRSTCDSPNNGAYFV 340

## RESULT 8

US-08-290-448A-78

Sequence 78, Application US/08290448A

Patent No. 5698224

## GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 State Street, Suite 510

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,448A

FILING DATE: August 15, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990

APPLICATION NUMBER: US 07/325,165

FILING DATE: March 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragoras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IN: C18CN

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 79:

SEQUENCE CHARACTERISTICS:

LENGTH: 383 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-290-448A-78

Query Match:

Best Local Similarity 66.7%;

Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

CY 3 NWWRSTCDSPNNGAYFV 20

DB 323 NWWRSTCDSPNNGAYFV 340

## RESULT 9

US-08-175-569A-78

Sequence 78, Application US/0817569A

Patent No. 576761

## GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 60 State Street

CITY: Boston

STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/175,069A  
 FILING DATE: December 29, 1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-0:80V  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 78:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-175-069A-78

Query Match 56.3% Score 67; DB 1; Length 383;  
 Best Local Similarity 66.7% Pred. No. 0.021;  
 Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 NWVWRSTQDSFNNGAYEV 20  
 DQ 323 NWVRSYDVFNNGAIFV 340

RESULT 10  
 US-08-461-939B-78  
 Sequence 78, Application US/0846:939B  
 Patent No. 6335819  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-Chang  
 TITLE OF INVENTION: Methods For Treating Sensitivity To A  
 TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 STREET: 28 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/461,939B  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/464,000  
 FILING DATE: 05-JUN-1995  
 APPLICATION NUMBER: US 08/290,448  
 FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951

FILING DATE: 29 MAY 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17 MAR 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-0:1A1XNV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)742 4214  
 INFORMATION FOR SEQ ID NO: 78:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-461-939B-78

Query Match 56.3% Score 67; DB 4; Length 383;  
 Best Local Similarity 66.7% Pred. No. 0.021;  
 Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 NWVWRSTQDSFNNGAYEV 20  
 DQ 323 NWVRSYDVFNNGAIFV 340

RESULT 11  
 US-08-464-000-78  
 Sequence 78, Application US/08464000  
 Patent No. 6335820  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-Chang  
 TITLE OF INVENTION: Allergen Peptides from Ragweed Pollen  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/464,000  
 FILING DATE: 05-JUN 1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 05/290,448  
 FILING DATE: 15-AUG 1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 23-MAY 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-0:80K2  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 78:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 383 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein

US-08-464-000-78

Query Match 56.3%; Score 67; DB 4; Length 143;  
 Best Local Similarity 66.7%; Pred. No. 0.021;  
 Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 NWVRSTQDSFNNGYFV 20  
 ||||| |||||  
 DB 323 NWVRSYVDVFENGAIFV 340

RESULT 12

US-08-467-023-54

Sequence 54, Application US/68467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-Mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.;

TITLE OF INVENTION: Allergenic Proteins And Peptides From

Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

City: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Rehillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (MI-028CPD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 54:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-54

Query Match

Best Local Similarity 47.9%; Score 57; DB 3; Length 20;

Pred. No. 0.026;

Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CANVWRSTQ 10

|||||

DB 11 CSNWWQSTQ 20

RESULT 13

US-08-290-448A-76

Sequence 76, Application US/08/290448A

Patent No. 5698254

GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Palfar, Thomas

APPLICANT: Kuo, Mei-Chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE &amp; COCKFIELD

STREET: 60 State Street, Suite 510

City: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109 1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,448A

FILING DATE: August 15, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/629,351

FILING DATE: May 29, 1993

APPLICATION NUMBER: US 07/325,365

FILING DATE: March 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Nardragoudas

REGISTRATION NUMBER: 36,209

REFERENCE/DOCKET NUMBER: IM1 0109E

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 76:

SEQUENCE CHARACTERISTICS:

LENGTH: 197 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US 08-290-448A-76

Query Match

Best Local Similarity 52.8%; Score 57; DB 1; Length 197;

Pred. No. 0.07;

Matches 10; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 4 NWVRSTQDSFNNGYFV 20

|||||

DB 338 NWVRSDQDSFNNGYFV 354

RESULT 14

US-08-290-448A-76

Sequence 76, Application US/08/290448A

Patent No. 5698254

GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Palfar, Thomas

APPLICANT: Kuo, Mei-Chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE &amp; COCKFIELD

STREET: 60 State Street, Suite 510

City: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109 1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/290.448A  
 FILING DATE: August 15, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-0180CN  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 76:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 397 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-290-448A-76

Query Match 47.9%; Score 57; DB 1; Length 397;  
 Best Local Similarity 58.8%; Pred. No. 0.7;  
 Matches 10; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 4 WWRSTQDSFNNNGAYFV 20  
 DB 318 WWRSDKDLLENGAIFV 354

RESULT 15  
 US-08-175-069A-76  
 Sequence 76, Application US/08175069A  
 Patent No. 5776761  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-chang  
 TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/175.069A  
 FILING DATE: December 29, 1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-0180CV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 76:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 397 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-175-069A-76  
 Query Match 47.9%; Score 57; DB 1; Length 397;  
 Best Local Similarity 58.8%; Pred. No. 0.7;  
 Matches 10; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 4 WWRSTQDSFNNNGAYFV 20  
 DB 318 WWRSDKDLLENGAIFV 354

Search completed: October 23, 2003, 11:12:39  
 Job time: 12.8 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 11:02:03 ; Search time 30.4 seconds  
(without alignment);  
110.171 Million cell updates/sec

Title: US-09-202-464-33

Perfect score: 106

Sequence: 1 DSFNNGAYFVSSGKNEGTNI 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 segs, 167460630 residues

Total number of hits satisfying chosen parameters: 629142

Minimum DB seq length: 6

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : 1: /cgn2\_6/prodata/1/pubaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/prodata/1/pubaa/ECT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/prodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/prodata/1/pubaa/US04\_PUBCOMB.pep.\*  
5: /cgn2\_6/prodata/1/pubaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/prodata/1/pubaa/ECT05\_PUBCOMB.pep.\*  
7: /cgn2\_6/prodata/1/pubaa/US08\_NEW\_PUB.pep.\*  
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12: /cgn2\_6/prodata/1/pubaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/prodata/1/pubaa/US04\_PUBCOMB.pep.\*  
14: /cgn2\_6/prodata/1/pubaa/US04\_PUBCOMB.pep.\*  
15: /cgn2\_6/prodata/1/pubaa/US04\_PUBCOMB.pep.\*  
16: /cgn2\_6/prodata/1/pubaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/prodata/1/pubaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/prodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	106	100.0	375	11	US-09-847-208-59 Sequence 58, Appl.
2	82	77.4	346	11	US-09-847-208-67 Sequence 67, Appl.
3	80	75.5	367	11	US-09-847-208-103 Sequence 109, Appl.
4	77	72.6	21	10	US-09-962-445 4 Sequence 4, Appl.
5	77	72.6	374	11	US-09-847-208 68 Sequence 68, Appl.
6	63	59.4	15	12	US-10-354-240-75 Sequence 76, Appl.
7	60	56.6	15	12	US-10-354-240-75 Sequence 75, Appl.
8	51	48.1	20	12	US-10-354-240-12 Sequence 12, Appl.
9	51	48.1	31	12	US-10-354-240-5 Sequence 5, Appl.
10	47	44.3	1208	14	US-10-156-761-13251 Sequence 13251, A
11	45.5	42.9	227	14	US-10-036-922-10 Sequence 10, Appl.
12	45.5	42.9	222	12	US-10-133-973-5 Sequence 5, Appl.
13	44	41.5	392	11	US-09-847-208-16 Sequence 16, Appl.
14	43	40.6	231	14	US-10-006-922-40 Sequence 40, Appl.
15	43	40.6	231	15	US-10-081-864-22 Sequence 22, Appl.

Sequence 15, Appl.  
Sequence 42, Appl.  
Sequence 12, Appl.  
Sequence 21, Appl.  
Sequence 21, Appl.  
Sequence 21, Appl.  
Sequence 6, Appl.  
Sequence 817, Appl.  
Sequence 817, Appl.  
Sequence 1, Appl.  
Sequence 3, Appl.  
Sequence 74, Appl.  
Sequence 15, Appl.  
Sequence 17, Appl.  
Sequence 12696, A  
Sequence 13061, A  
Sequence 4, Appl.  
Sequence 794, Appl.  
Sequence 489, Appl.  
Sequence 131, Appl.  
Sequence 4, Appl.  
Sequence 6, Appl.  
Sequence 27, Appl.  
Sequence 13, Appl.  
Sequence 16, Appl.  
Sequence 20, Appl.  
Sequence 4, Appl.  
Sequence 1167, A

## ALIGNMENTS

RESULT 1  
US-09-847-208 59  
; Sequence 58, Application US/00447008  
; Publication No. US00447008A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daosheng  
; TITLE OF INVENTION: HUMAN MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: FOR RELATED ALLERGIC DISEASES  
; FILE REFERENCE: US0616004  
; CURRENT APPLICATION NUMBER: US/00447008  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 59  
; TYPE: PPT  
; LENGTH: 375  
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)  
US-09-847-208 59

Query Match 100.0% Score 106 Length 375  
Best Local Similarity 100.0% Pred. No. 2.79 387  
Matches 20 Conservative 0 Mismatches 0 Indels 0 Gaps 0

QV 1 DSFNNGAYFVSSGKNEGTNI 20  
||| ||| ||| |||  
Cb 322 DSFNNGAYFVSSGKNEGTNI 341

RESULT 2  
US-09-847-208-67  
; Sequence 67, Application US/09847008  
; Publication No. US20010382130A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daosheng

; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 67  
 ; LENGTH: 346  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 US-09-847 208-67

Query Match 77.4%; Score 82; DB 11; Length 346;  
 Best Local Similarity 80.0%; Pred. No. 0.0022;  
 Matches 16; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DSNFNGAYFVSSGKNEGNTI 20  
 DB 301 DAFNGAYFVSSGKNEGNTI 320

RESULT 3  
 US-09-847-208-109  
 ; Sequence 109, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 109  
 ; LENGTH: 367  
 ; TYPE: PRT  
 ; ORGANISM: Juniperus ashei (Ozark white cedar)  
 US-09-847-208-109

Query Match 75.5%; Score 80; DB 11; Length 367;  
 Best Local Similarity 80.0%; Pred. No. 0.0022;  
 Matches 16; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DSNFNGAYFVSSGKNEGNTI 20  
 DB 322 DAFNGAYFVSSGKNEGNTI 341

RESULT 4  
 US-09-962-445-4  
 ; Sequence 4, Application US/09962445  
 ; Publication No. US20020192705A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: MATSUSHITA, Sho et al.  
 ; TITLE OF INVENTION: Clonal Expansion of T Cells of Unknown Specificity and Identification  
 ; TITLE OF INVENTION: Ligand Recognized by the Clonally Expanded T Cells  
 ; FILE REFERENCE: 0020-4906P  
 ; CURRENT APPLICATION NUMBER: US/09/962.445  
 ; CURRENT FILING DATE: 2001-12-28  
 ; PRIOR APPLICATION NUMBER: JP 2001-7962;  
 ; PRIOR FILING DATE: 2001-03-21  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 4  
 ; LENGTH: 21  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic peptide Cry 1; p301-321

US-09-962-445-4

Query Match 80.6%; Score 83; DB 10; Length 21;  
 Best Local Similarity 80.0%; Pred. No. 2.56e-05;  
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 DSNFNGAYFVSSGKNEGNTI 20  
 DB 1 DSNFNGAYFVSSGKNEGNTI 20

RESULT 5  
 US-09-847-208-68  
 ; Sequence 68, Application US/09847208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daocheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847.208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 174  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica (Japanese cedar)  
 US-09-847-208-68

Query Match 80.6%; Score 83; DB 10; Length 374;  
 Best Local Similarity 80.0%; Pred. No. 0.00064;  
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 DSNFNGAYFVSSGKNEGNTI 20  
 DB 322 DSNFNGAYFVSSGKNEGNTI 341

RESULT 6  
 US-10-354 240-76  
 ; Sequence 76, Application US/10354240  
 ; Publication No. US2004018647A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Tetsuo  
 ; APPLICANT: Kume, Akio  
 ; APPLICANT: Fukuoka, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kono, Kousuke  
 ; TITLE OF INVENTION: Peptide-Based Immunoherapeutic Agent for Treating Allergic Diseases  
 ; FILE REFERENCE: SEQ ID NO 1  
 ; CURRENT APPLICATION NUMBER: US/10/354.240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: EP/04097/00740  
 ; PRIOR FILING DATE: 1997-03-12  
 ; PRIOR APPLICATION NUMBER: US/09/142,524  
 ; PRIOR FILING DATE: 1998-09-09  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 76  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cupressus arizonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: 111-115  
 ; OTHER INFORMATION: Cry1; peptide, Figure 1, Row 62  
 US-10-354 240-76

Query Match 59.4%; Score 61; DB 12; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 0.0028;

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Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
CY 6 GAYFVSSGKNEGTNI 20
  ||||| |||
Db 1 GAYFVSSGKNEGTNI 15

RESULT 7
US-10-354-240-75
; Sequence 75, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinozi
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-10301
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; INFORMATION: Cryj1 peptide, Figure 1, Row 61
US-10-354-240-75

Query Match 56.6%; Score 60; DB 12; Length 15;
Best Local Similarity 85.7%; Pred. No. 0.008;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
CY 1 DVFYNGAYFVSSGK 14
  ||||| |||
Db 1 DVFYNGAYFVSSGK 14

RESULT 8
US-10-354-240-12
; Sequence 12, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinozi
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-10301
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
US-10-354-240-12

Query Match 48.1%; Score 51; DB 12; Length 20;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
CY 6 GAYFVSSGKNEGTNI 20
  ||||| |||
Db 1 GAYFVSSGKNEGTNI 15
```

```
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 11 SSGKNEGTNI 20
  ||||| |||
Db 1 SSGKNEGTNI 10

RESULT 9
US-10-354-240-5
; Sequence 5, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinozi
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-10301
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 31
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
US-10-354-240-5

Query Match 44.3%; Score 51; DB 12; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 11 SSGKNEGTNI 20
  ||||| |||
Db 1 SSGKNEGTNI 10

RESULT 10
US-10-156-761-13251
; Sequence 13251, Application US/10156761
; Publication No. US2003019018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHISA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-249
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-06-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 13251
; LENGTH: 1208
; TYPE: PPT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-13251

Query Match 44.3%; Score 47; DB 15; Length 1208;
Best Local Similarity 47.4%; Pred. No. 95;
Matches 9; Conservative 2; Mismatches 8; Indels 0; Gaps 0;
```

QY : DSFNNGAYFVSSGKNGECTN 19  
 |||: |||: |||: |||:  
 Db 371 DSSORAAFTSAGPRHGCN 389

## RESULT 11

US-10-006-922-10

: Sequence 10, Application US/10006922  
 : Publication No. US20020197676A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Lukyanov, Sergey A  
 : APPLICANT: Fradkov, Arcady F.  
 : APPLICANT: Labas, Yulii A.  
 : APPLICANT: Matz, Mikhail V.  
 : APPLICANT: Tersikh, Alexey  
 : TITLE OF INVENTION: No. US20020197676A1: Chromophores/Fluorophores and  
 : TITLE OF INVENTION: Methods for Using the Same  
 : FILE REFERENCE: CLON-035CIP  
 : CURRENT APPLICATION NUMBER: US/10/006,922  
 : CURRENT FILING DATE: 2001-12-04  
 : PRIOR APPLICATION NUMBER: 09/120,330  
 : PRIOR FILING DATE: 1998-12-11  
 : PRIOR APPLICATION NUMBER: 09/457,898  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/458,144  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/458,477  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/457,556  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/444,338  
 : PRIOR FILING DATE: 1999-11-19  
 : NUMBER OF SEQ ID NOS: 46  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 10  
 : LENGTH: 227  
 : TYPE: PRT  
 : ORGANISM: Discosoma striata

US-10-006-922-10

Query Match 42.9%; Score 45.5; DR 14; Length 227;  
 Best Local Similarity 55.0%; Pred. No. 26;  
 Matches 11; Conservative 0; Mismatches 4; Indels 5; Gaps 1;

QY 5 NGAYFVSSGK-----NEGCTN 19  
 |||: |||: |||: |||:  
 Db 23 NGHYFEIKGKGKPNECTN 42

## RESULT 12

US-10-133-973-5

: Sequence 5, Application US/10133973  
 : Publication No. US20030149254A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Anderson, David  
 : TITLE OF INVENTION: METHODS AND COMPOSITIONS COVERING BENILIA GFP  
 : FILE REFERENCE: A-68531-3/RMS/CYC  
 : CURRENT APPLICATION NUMBER: US/10/133,973  
 : CURRENT FILING DATE: 2002-04-24  
 : PRIOR APPLICATION NUMBER: US 60/290,287  
 : PRIOR FILING DATE: 2001-05-10  
 : PRIOR APPLICATION NUMBER: US 09/710,058  
 : PRIOR FILING DATE: 2000-11-10  
 : NUMBER OF SEQ ID NOS: 107  
 : SOFTWARE: PatentIn version 3.1  
 : SEQ ID NO 5  
 : LENGTH: 232  
 : TYPE: PRT  
 : ORGANISM: Discosoma striata

US-10-133-973-5

Query Match 42.9%; Score 45.5; DR 12; Length 232;

Best Local Similarity 55.0%; Pred. No. 27;  
 Matches 11; Conservative 0; Mismatches 4; Indels 5; Gaps 1;

QY 5 NGAYFVSSGK-----NEGCTN 19  
 |||: |||: |||: |||:  
 Db 23 NGHYFEIKGKGKPNECTN 42

## RESULT 13

US-09-847-208-16

: Sequence 16, Application US/09847208  
 : Publication No. US20030030410A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Saxton, Andrew  
 : APPLICANT: Zhang, Ke  
 : APPLICANT: Zhu, Encheng  
 : TITLE OF INVENTION: FISHING METHODS AND TREATMENT OF  
 : TITLE OF INVENTION: FISH MEDITATED ALLERGIC DISEASES  
 : FILE REFERENCE: US/03/003,410  
 : CURRENT APPLICATION NUMBER: US/09/847,208  
 : CURRENT FILING DATE: 2003-03-11  
 : NUMBER OF SEQ ID NOS: 107  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 16  
 : LENGTH: 132  
 : TYPE: PRT  
 : ORGANISM: Anemonia automedusa (fish)

US-09-847-208-16

Query Match 41.6%; Score 44; DR 11; Length 102;  
 Best Local Similarity 60.0%; Pred. No. 41;  
 Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY : DSFNNGAYFVSSGK-----NEGCTN 19  
 |||: |||: |||: |||:  
 Db 340 DVEENGATFVFN 162

## RESULT 14

US-10-006-922-40

: Sequence 40, Application US/10006922  
 : Publication No. US20020197676A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Lukyanov, Sergey A  
 : APPLICANT: Fradkov, Arcady F.  
 : APPLICANT: Labas, Yulii A.  
 : APPLICANT: Matz, Mikhail V.  
 : APPLICANT: Tersikh, Alexey  
 : TITLE OF INVENTION: No. US20020197676A1: Chromophores/Fluorophores and  
 : TITLE OF INVENTION: Methods for Using the Same  
 : FILE REFERENCE: CLON 035CIP  
 : CURRENT APPLICATION NUMBER: US/10/006,922  
 : CURRENT FILING DATE: 2001-12-04  
 : PRIOR APPLICATION NUMBER: 09/120,330  
 : PRIOR FILING DATE: 1998-12-11  
 : PRIOR APPLICATION NUMBER: 09/457,898  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/458,144  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/458,477  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/457,556  
 : PRIOR FILING DATE: 1999-12-09  
 : PRIOR APPLICATION NUMBER: 09/444,338  
 : PRIOR FILING DATE: 1999-11-19  
 : NUMBER OF SEQ ID NOS: 46  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 40  
 : LENGTH: 231  
 : TYPE: PRT  
 : ORGANISM: Anemonia sulcata

US-10-006-922-40

US-10-006-922-40

Query Match 40.6%; Score 43; DB 14; Length 231;  
 Best Local Similarity 61.5%; Pred. No. 65;  
 Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 5 NGAYFVSSGKNEG 17  
 ||| :|||  
 Db 19 NGHFFKCTGKGEG 31

RESULT 15  
 US-10-081-864-22  
 ; Sequence 22, Application US/10081864  
 ; Publication No. US20030022287A:  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lukyanov, Sergey  
 ; APPLICANT: Lukyanov, Konstantin  
 ; APPLICANT: Yanushevich, Yuriy  
 ; APPLICANT: Savitsky, Alexandr  
 ; APPLICANT: Fradkov, Arcady  
 ; TITLE OF INVENTION: No. US20030022287A: Aggregating Fluorescent Proteins and  
 ; FILE REFERENCE: CLON-867  
 ; CURRENT APPLICATION NUMBER: US/10/081.864  
 ; CURRENT FILING DATE: 2002-06-19  
 ; PRIOR APPLICATION NUMBER: 10/006.922  
 ; PRIOR FILING DATE: 2001-12-04  
 ; PRIOR APPLICATION NUMBER: 60/270.993  
 ; PRIOR FILING DATE: 2001-02-21  
 ; NUMBER OF SEQ ID NOS: 30  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 22  
 ; LENGTH: 231  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: non-aggregating mutant  
 US-10-081-864-22

Query Match 40.6%; Score 43; DB 15; Length 231;  
 Best Local Similarity 61.5%; Pred. No. 65;  
 Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 5 NGAYFVSSGKNEG 17  
 ||| :|||  
 Db 19 NGHFFKCTGKGEG 31

Search completed: October 23, 2003, 11:25:47  
 Job time : 31.4 secs





```

; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CF02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 40 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-70

Query Match 72.6%; Score 77; DB 3; Length 40;
Best Local Similarity 80.0%; Pred. No. 4.5e-05;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

CY 1 DSPNNGAYFVSSGKNEGTNI 20
DB 11 DVFYNGAYFVSSGKVEGGNI 30

RESULT 5
US-08-467-023-65
; Sequence 65, Application US/08467023
; Patent No. 5090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard

```

```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 028CF02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-65

Query Match 72.6%; Score 77; DB 3; Length 40;
Best Local Similarity 80.0%; Pred. No. 7.5e-05;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

CY 1 DSPNNGAYFVSSGKNEGTNI 20
DB 11 DVFYNGAYFVSSGKVEGGNI 30

RESULT 6
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard

```



REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IX:028CPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-7400  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 374 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-467-023-2

Query Match 72.6% Score 77 DB 3; Length 374;  
 Best Local Similarity 80.0% Pred. No. 0.00056;  
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 DSENNGAYFVSSGKNECTNI 20  
 |||||  
 Db 322 DVFYNGAYFVSSGKYEGNI 341

RESULT 7  
 US-08-467-023-92  
 Sequence 92 Application US/08467023  
 Patent No. 6390386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.  
 APPLICANT: Pollock, Joanne  
 APPLICANT: Bond, Julian F.  
 APPLICANT: Garman, Richard D.  
 APPLICANT: Kuo, Wei-Chang  
 APPLICANT: Brauer, Andrew  
 APPLICANT: Exley, Mark A.  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 26  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patent in Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IX:028CPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 92:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 24 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-92

Query Match 65.1% Score 69 DB 3; Length 24;  
 Best Local Similarity 87.5% Pred. No. 0.00041;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 NGAYFVSSGKNECTNI 20  
 |||||  
 Db 1 NGAYFVSSGKYEGNI 16

RESULT 8  
 US-08-467-023-91  
 Sequence 91 Application US/08467023  
 Patent No. 6390386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.  
 APPLICANT: Pollock, Joanne  
 APPLICANT: Bond, Julian F.  
 APPLICANT: Garman, Richard D.  
 APPLICANT: Kuo, Wei-Chang  
 APPLICANT: Brauer, Andrew  
 APPLICANT: Exley, Mark A.  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 241  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patent in Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USC2 (IX:028CPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 26 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-91

Query Match 65.1% Score 69 DB 3; Length 26;  
 Best Local Similarity 87.5% Pred. No. 0.00045;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 NGAYFVSSGKNECTNI 20  
 |||||  
 Db 1 NGAYFVSSGKYEGNI 16

RESULT 9  
 US-08-467-023-93

```

: Sequence 93, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI-0267912)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 93:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 26 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-93
: Query Match 65.1%, Score 69, DB 3, Length 26;
: Best Local Similarity 87.5%, Pred. No. 0.00045;
: Matches 14, Conservative 0, Mismatches 2, Indels 0, Gaps 0;
:
: Cq 5 NGAYFVSSGKNEGNI 20
: Db 3 NGAYFVSSGKVEGNI 19
:
: RESULT 10
: US-08-467-023-130
: Sequence 130, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.

```

```

: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 US22 (IMI-0280302)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 130:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 26 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-130
: Query Match 65.1%, Score 69, DB 3, Length 26;
: Best Local Similarity 87.5%, Pred. No. 0.00049;
: Matches 14, Conservative 0, Mismatches 2, Indels 0, Gaps 0;
:
: Cq 5 NGAYFVSSGKNEGNI 20
: Db 3 NGAYFVSSGKVEGNI 19
:
: RESULT 11
: US-08-467-023-131
: Sequence 131, Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk

```

```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/467,023
  FILING DATE: June 6, 1995
  CLASSIFICATION: 424
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 08/350,225
  FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
  NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 US2 (IM: 02ACPD2)
TELECOMMUNICATION INFORMATION:
  TELEPHONE: (617) 227-7430
  TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 131:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 29 amino acids
    TYPE: amino acid
    TOPOLOGY: linear
  MOLECULE TYPE: peptide
  FRAGMENT TYPE: internal
US-08-467-023-131

Query Match      65.1%; Score 49; DB 1; Length 29;
Best Local Similarity 87.5%; Pred. No. 0.00051;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      5 NGAYFVSSGKNEGNI 20
Db      4 NGAYFVSSGKYEAGNI 19
      |||||
RESULT 12
US-08-467-023-259
Sequence 259, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
  APPLICANT: Griffith, Irwin J.;
  APPLICANT: Pollock, Joanne;
  APPLICANT: Bond, Julian F.;
  APPLICANT: Garman, Richard D.;
  APPLICANT: Kuo, Mei-Chang;
  APPLICANT: Yeung, Siu-mei H.;
  APPLICANT: Brauer, Andrew;
  APPLICANT: Exley, Mark A.;
  APPLICANT: Powers, Steven P.;
TITLE OF INVENTION: Allergenic Proteins And Peptides from
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
  ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
  STREET: 610 Lincoln St
  CITY: Waltham
  STATE: MA
  COUNTRY: USA
  ZIP: 02154
COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/467,023
  FILING DATE: June 6, 1995
  CLASSIFICATION: 424
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 08/350,225
  FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
  NAME: Jane E. Remillard

```

```

REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 US2 (IM: 02ACPD2)
TELECOMMUNICATION INFORMATION:
  TELEPHONE: (617) 227-7430
  TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 259:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 27 amino acids
    TYPE: amino acid
    TOPOLOGY: linear
  MOLECULE TYPE: peptide
  FRAGMENT TYPE: internal
US-08-467-023-249

Query Match      65.1%; Score 49; DB 1; Length 27;
Best Local Similarity 87.5%; Pred. No. 0.00051;
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      4 NGAYFVSSGKNEGNI 20
Db      1 NGAYFVSSGKYEAGNI 19
      |||||
RESULT 13
US-08-467-023-132
Sequence 132, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
  APPLICANT: Griffith, Irwin J.;
  APPLICANT: Pollock, Joanne;
  APPLICANT: Bond, Julian F.;
  APPLICANT: Garman, Richard D.;
  APPLICANT: Kuo, Mei-Chang;
  APPLICANT: Yeung, Siu-mei H.;
  APPLICANT: Brauer, Andrew;
  APPLICANT: Exley, Mark A.;
  APPLICANT: Powers, Steven P.;
TITLE OF INVENTION: Allergenic Proteins And Peptides from
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
  ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
  STREET: 610 Lincoln St
  CITY: Waltham
  STATE: MA
  COUNTRY: USA
  ZIP: 02154
COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/467,023
  FILING DATE: June 6, 1995
  CLASSIFICATION: 424
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 08/350,225
  FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
  NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 US2 (IM: 02ACPD2)
TELECOMMUNICATION INFORMATION:
  TELEPHONE: (617) 227-7430
  TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 132:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 28 amino acids
    TYPE: amino acid
    TOPOLOGY: linear
  MOLECULE TYPE: peptide
  FRAGMENT TYPE: internal

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US-08-467-023-132

Query Match 59.4%; Score 63; DB 3; Length 30;  
 Best Local Similarity 86.7%; Pred. No. 0.0039;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0;

QY 6 GAYFVSSGKNEGTNI 20  
 |||||  
 Db 4 GAYFVSSGKYEGRNI 18

## RESULT 14

US-08-467-023-260

; Sequence 260, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; TITLE OF INVENTION: Japanese Cedar Pollen  
 ; NUMBER OF SEQUENCES: 261  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/467,023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350,225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-026CPD2)  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 260:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 30 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal  
 ; US-08-467-023 260

Query Match 59.4%; Score 63; DB 3; Length 30;  
 Best Local Similarity 86.7%; Pred. No. 0.0043;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0;

QY 6 GAYFVSSGKNEGTNI 20  
 |||||  
 Db 4 GAYFVSSGKYEGRNI 18

## RESULT 15

US-08-467-023-261

; Sequence 261, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; TITLE OF INVENTION: Japanese Cedar Pollen  
 ; NUMBER OF SEQUENCES: 261  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.24  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/467,023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350,225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-026CPD2)  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 261:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 30 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal  
 ; US-08-467-023-261

Query Match 59.4%; Score 63; DB 3; Length 30;  
 Best Local Similarity 86.7%; Pred. No. 0.0043;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0;

QY 6 GAYFVSSGKNEGTNI 20  
 |||||  
 Db 4 GAYFVSSGKYEGRNI 18

Search completed: October 23, 2003, 11:02:39  
 Job time : 11.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 11:02:03 ; Search time 30.4 Seconds  
(without alignments)  
110.171 Million cell updates/sec

Title: US-09-202-464-34

Perfect score: 105

Sequence: 1 SSGKNEGTINYNNEAFKVE 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167463630 res.dues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB.pep.
- 2: /cgn2\_6/prodata/1/pubpaa/PCT\_NEW\_PUB.pep.
- 3: /cgn2\_6/prodata/1/pubpaa/US02\_NEW\_PUB.pep.
- 4: /cgn2\_6/prodata/1/pubpaa/US06\_PUBCOMB.pep.
- 5: /cgn2\_6/prodata/1/pubpaa/US07\_NEW\_PUB.pep.
- 6: /cgn2\_6/prodata/1/pubpaa/PCTUS\_PUBCOMB.pep.
- 7: /cgn2\_6/prodata/1/pubpaa/US08\_NEW\_PUB.pep.
- 8: /cgn2\_6/prodata/1/pubpaa/US09\_PUBCOMB.pep.
- 9: /cgn2\_6/prodata/1/pubpaa/US03A\_PUBCOMB.pep.
- 10: /cgn2\_6/prodata/1/pubpaa/US03B\_PUBCOMB.pep.
- 11: /cgn2\_6/prodata/1/pubpaa/US09C\_PUBCOMB.pep.
- 12: /cgn2\_6/prodata/1/pubpaa/US09\_NEW\_PUB.pep.
- 13: /cgn2\_6/prodata/1/pubpaa/US10A\_PUBCOMB.pep.
- 14: /cgn2\_6/prodata/1/pubpaa/US10B\_PUBCOMB.pep.
- 15: /cgn2\_6/prodata/1/pubpaa/US10C\_PUBCOMB.pep.
- 16: /cgn2\_6/prodata/1/pubpaa/US10D\_NEW\_PUB.pep.
- 17: /cgn2\_6/prodata/1/pubpaa/US60\_NEW\_PUB.pep.
- 18: /cgn2\_6/prodata/1/pubpaa/US60\_PUBCOMB.pep.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARY:

Result No.	Score	Query Match	Length	ID	Description
1	105	100.0	20	12	US-10-354-240-12
2	105	100.0	31	12	US-10-354-240-5
3	105	100.0	375	11	US-09-847-208-59
4	86	81.9	367	11	US-09-847-208-159
5	85	81.0	346	11	US-09-847-208-67
6	67	63.8	20	12	US-10-384-933-41
7	67	63.8	20	15	US-10-216-484-41
8	67	63.8	374	11	US-09-847-208-68
9	50	47.6	15	12	US-10-354-240-78
10	48	45.7	15	12	US-10-354-240-77
11	47	44.8	440	9	US-09-922-217-1059
12	47	44.8	440	10	US-09-833-263-1059
13	47	44.8	440	14	US-10-025-380-1059
14	47	44.8	605	10	US-09-741-233A-2
15	46	43.8	396	9	US-09-925-301-852

16	46	43.8	452	12	US-10-195-962-20	Sequence 10, Appl
17	45.5	43.3	458	12	US-10-032-585-7575	Sequence 752, Ap
18	44	42.9	472	12	US-10-032-585-7564	Sequence 754, Ap
19	44	41.9	38	12	US-10-291-086-56	Sequence 56, Appl
20	44	41.9	187	15	US-10-171-311-75	Sequence 75, Appl
21	44	41.9	322	12	US-10-218-075-366	Sequence 344, Appl
22	44	41.9	452	9	US-09-925-301-1287	Sequence 104, Ap
23	44	41.9	510	9	US-09-989-722-67	Sequence 67, Appl
24	44	41.9	510	9	US-09-989-722-67	Sequence 67, Appl
25	44	41.9	510	9	US-09-989-722-67	Sequence 67, Appl
26	44	41.9	510	9	US-09-989-722-67	Sequence 67, Appl
27	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
28	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
29	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
30	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
31	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
32	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
33	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
34	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
35	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
36	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
37	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
38	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
39	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
40	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
41	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
42	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
43	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
44	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl
45	44	41.9	510	10	US-09-989-722-67	Sequence 67, Appl

ALIGNMENTS

RESULT 1  
US-10-354-240-12  
; Sequence 12, Application US/10354240  
; Publication No. US2003018547A;  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akiochi  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiyo  
; APPLICANT: Kino, Kousuke  
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Autoimmune Dis  
; FILE REFERENCE: SPO-1031  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; PRIOR FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JF97/00040  
; PRIOR FILING DATE: 1997-03-16  
; PRIOR APPLICATION NUMBER: US-09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: Patent In version 3.1  
; SEQ ID NO 12  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Cryptosporidia japonica  
US-10-354-240-12

Query Match: 100.0% Score 105.0 DB 12 Length 20  
Best Local Similarity: 100.0% Pctd No. 1e-09  
Matches: 20, Conservative: 0, Mismatches: 0, Indels: 0, Gaps: 0

CY 1 SSGKNEGTINYNNEAFKVE 20  
||| ||| ||| ||| |||  
DB : SSGKNEGTINYNNEAFKVE 20

RESULT 2  
US-10-354-240-5  
; Sequence 5, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio  
 APPLICANT: Kume, Akinori  
 APPLICANT: Dairiki, Kazuo  
 APPLICANT: Iwama, Akiko  
 APPLICANT: Kino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

FILE REFERENCE: SPO-10301

CURRENT APPLICATION NUMBER: US/10/354,243

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: US 09/142,574

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 5

LENGTH: 31

TYPE: PPT

ORGANISM: Cryptosporidia japonica

US-10-354-243-5

Query Match

Best Local Similarity: 100.0%; Score 105; DB 10; Length 31;

Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

Cy 1 SSGKNEGTNIYNNNEAPKVE 20

Db 1 SSGKNEGTNIYNNNEAPKVE 20

1 SSGKNEGTNIYNNNEAPKVE 20

1 SSGKNEGTNIYNNNEAPKVE 20

RESULT 3

US-09-847-208-58

Sequence 58, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67.002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 58

LENGTH: 375

TYPE: PPT

ORGANISM: Chamaecypris obtusa (Japanese cypress)

US-09-847-208-58

Query Match

Best Local Similarity: 100.0%; Score 105; DB 11; Length 375;

Matches: 20; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

Cy 1 SSGKNEGTNIYNNNEAPKVE 20

Db 332 SSGKNEGTNIYNNNEAPKVE 351

1 SSGKNEGTNIYNNNEAPKVE 351

332 SSGKNEGTNIYNNNEAPKVE 351

RESULT 4

US-09-847-208-109

Sequence 109, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67.002A

CURRENT APPLICATION NUMBER: US 09-847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 109

LENGTH: 367

TYPE: PPT

ORGANISM: Chamaecypris obtusa (Japanese cypress)

US 09-847-208-109

Query Match

Best Local Similarity: 85.0%; Score 85; DB 11; Length 367;

Matches: 17; Conservative: 0; Mismatches: 2; Indels: 0; Gaps: 0;

Cy 1 SSGKNEGTNIYNNNEAPKVE 20

Db 332 SSGKNEGTNIYNNNEAPKVE 351

1 SSGKNEGTNIYNNNEAPKVE 351

332 SSGKNEGTNIYNNNEAPKVE 351

RESULT 5

US-09-847-208-67

Sequence 67, Application US/09847208

Publication No. US20030082190A1

GENERAL INFORMATION:

APPLICANT: Saxon, Andrew

APPLICANT: Zhang, Ke

APPLICANT: Zhu, Daocheng

TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF

TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES

FILE REFERENCE: UC67.002A

CURRENT APPLICATION NUMBER: US/09/847,208

CURRENT FILING DATE: 2001-05-01

NUMBER OF SEQ ID NOS: 177

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 67

LENGTH: 146

TYPE: PPT

ORGANISM: Chamaecypris obtusa

US 09-847-208-67

Query Match

Best Local Similarity: 85.0%; Score 85; DB 11; Length 146;

Matches: 17; Conservative: 0; Mismatches: 2; Indels: 0; Gaps: 0;

Cy 1 SSGKNEGTNIYNNNEAPKVE 20

Db 311 SSGKNEGTNIYNNNEAPKVE 350

1 SSGKNEGTNIYNNNEAPKVE 350

311 SSGKNEGTNIYNNNEAPKVE 350

RESULT 6

US-10-384-933-41

Sequence 41, Application US/10044033

Publication No. US20030172872A1

GENERAL INFORMATION:

APPLICANT: Saitawa, No. US20030172872A1

APPLICANT: Haruyama, Hisayuki

APPLICANT: Nakahara, Kaori

APPLICANT: Takaki, Ikuko

APPLICANT: Takahashi, Toshiro

TITLE OF INVENTION: Anti-Fas Antibodies

FILE REFERENCE: 980124CIP/8G

CURRENT APPLICATION NUMBER: US/10/384,933

CURRENT FILING DATE: 2003-02-05

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR FILING DATE: 2000-02-09

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/053,589

PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-01

NUMBER OF SEQ ID NOS: 165

SEQ ID NO 41

LENGTH: 20

TYPE: PPT

ORGANISM: Homo sapiens

US-10-384-933-41

Query Match 63.8%; Score 67; DB 15; Length 20;  
 Best Local Similarity 70.0%; Pred. No. 0.00075;  
 Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 SSGKNEGNTIYNNEAFKVE 20  
 ||||| ||||| ||||| ||||| |||||  
 DB 1 SSGKVEGGNIYTKKAFNVE 20

## RESULT 7

US-10-216-484-41  
 ; Sequence 41, Application US/10216484  
 ; Publication No. US20030103976A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Serizawa, NO. US20030103976A1ufusa  
 ; APPLICANT: Haruyama, Hideyuki  
 ; APPLICANT: Nakahara, Kaori  
 ; APPLICANT: Tamaki, Ikuko  
 ; APPLICANT: Takahashi, Tohru  
 ; TITLE OF INVENTION: Anti-Fas Antibodies  
 ; FILE REFERENCE: 980126CIP/HG  
 ; CURRENT APPLICATION NUMBER: US/10/216,484  
 ; PRIOR FILING DATE: 2002-08-09  
 ; PRIOR APPLICATION NUMBER: US/09/499,662  
 ; PRIOR FILING DATE: 2000-02-09  
 ; PRIOR APPLICATION NUMBER: US 09/353,583  
 ; PRIOR FILING DATE: 1998-04-01  
 ; NUMBER OF SEQ ID NOS: 165  
 ; SEQ ID NO 41  
 ; LENGTH: 20  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; OTHER INFORMATION: Cyt; peptide, Figure 1, Row 41  
 US-10-216-484-41

Query Match 63.8%; Score 67; DB 15; Length 20;  
 Best Local Similarity 70.0%; Pred. No. 0.00075;  
 Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 SSGKNEGNTIYNNEAFKVE 20  
 ||||| ||||| ||||| ||||| |||||  
 DB 1 SSGKVEGGNIYTKKAFNVE 20

## RESULT 8

US-09-847-208-68  
 ; Sequence 68, Application US/09947208  
 ; Publication No. US20030082190A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saxon, Andrew  
 ; APPLICANT: Zhang, Ke  
 ; APPLICANT: Zhu, Daoheng  
 ; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
 ; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
 ; FILE REFERENCE: UC67.002A  
 ; CURRENT APPLICATION NUMBER: US/09/847,208  
 ; CURRENT FILING DATE: 2001-05-01  
 ; NUMBER OF SEQ ID NOS: 177  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 68  
 ; LENGTH: 374  
 ; TYPE: PRT  
 ; ORGANISM: Cryptosporidia japonica (Japanese cedar)  
 US-09-847-208-68

Query Match 63.8%; Score 67; DB 11; Length 374;  
 Best Local Similarity 70.0%; Pred. No. 0.0022;  
 Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 SSGKNEGNTIYNNEAFKVE 20  
 ||||| ||||| ||||| ||||| |||||  
 DB 332 SSGKVEGGNIYTKKAFNVE 351

## RESULT 9

US-10-354-240-79  
 ; Sequence 78, Application US/10354240  
 ; Publication No. US2003015847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kure, Akio  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwata, Akiko  
 ; APPLICANT: Kuro, Kohsuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis-  
 ; FILE REFERENCE: SPO-1001  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/03740  
 ; PRIOR FILING DATE: 1997-01-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1997-03-10  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1  
 ; SEQ ID NO 78  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptosporidia japonica  
 ; FEATURE: MISC FEATURE  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (1)-(15)  
 ; OTHER INFORMATION: Cyt; peptide, Figure 1, Row 64  
 US-10-354-240-78

Query Match 47.6%; Score 50; DB 12; Length 15;  
 Best Local Similarity 66.7%; Pred. No. 0.21;  
 Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 6 EGGNIYNNNEAFKVE 20  
 ||||| ||||| ||||| ||||| |||||  
 DB 1 EGGNIYTKKAFNVE 15

## RESULT 10

US-10-354-240-77  
 ; Sequence 77, Application US/10354240  
 ; Publication No. US2003015847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kure, Akio  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwata, Akiko  
 ; APPLICANT: Kuro, Kohsuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dis-  
 ; FILE REFERENCE: SPO-1001  
 ; CURRENT APPLICATION NUMBER: US/10/354,240  
 ; CURRENT FILING DATE: 2003-01-29  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/03740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; PRIOR APPLICATION NUMBER: US 09/142,524  
 ; PRIOR FILING DATE: 1997-03-10  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent In Version 3.1  
 ; SEQ ID NO 77  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptosporidia japonica  
 ; FEATURE: MISC FEATURE  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (1)-(15)  
 ; OTHER INFORMATION: Cyt; peptide, Figure 1, Row 63  
 US-10-354-240-77

Query Match 45.7%; Score 49; DB 12; Length 15;  
 Best Local Similarity 66.7%; Pred. No. 0.47;  
 Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY : SSGKNEGTNIYNNNEAFKV 15  
 ||||| : ||||| :  
 Db 1 SSGKYEGGNIYTKXE 15

## RESULT 11

US-09-922-217-1059  
 ? Sequence 1059, Application US/0922221?  
 ? Patent No. US20020076414A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Xu, Jiangchun  
 ? APPLICANT: Lodes, Michael J.  
 ? APPLICANT: Secrist, Heather  
 ? APPLICANT: Benson, Darin R.  
 ? APPLICANT: Meagher, Madeleine Joy  
 ? APPLICANT: Stolk, John A.  
 ? APPLICANT: Wang, Tongtong  
 ? APPLICANT: Jiang, Yugu  
 ? APPLICANT: Smith, Carole Lynn  
 ? APPLICANT: King, Gordon E.  
 ? APPLICANT: Wang, Aijun  
 ? APPLICANT: Clapper, Jonathan D.  
 ? TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ? FILE REFERENCE: 210/21,471C13  
 ? CURRENT APPLICATION NUMBER: US/09/922,217  
 ? CURRENT FILING DATE: 2001-08-03  
 ? NUMBER OF SEQ ID NOS: 1124  
 ? SOFTWARE: FastSEQ for Windows Version 4.0  
 ? SEQ ID NO 1059  
 ? LENGTH: 440  
 ? TYPE: PPT  
 ? ORGANISM: Homo sapiens  
 US-09-922-217-1059

Query Match 44.8%; Score 47; DB 9; Length 440;  
 Best Local Similarity 50.0%; Pred. No. 32;  
 Matches 9; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 SSGKNEGTNIYNNNEAFKV 19  
 ||||| : ||||| :  
 Db 29 SGKLDNTNEYSNCGKK 46

## RESULT 12

US-09-833-263-1059  
 ? Sequence 1059, Application US/09833263  
 ? Patent No. US2002010547A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Wang, Aijun  
 ? APPLICANT: Clapper, Jonathan D.  
 ? APPLICANT: Stolk, John A.  
 ? APPLICANT: Meagher, Madeleine J.  
 ? TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
 ? FILE REFERENCE: 210/21,471C12  
 ? CURRENT APPLICATION NUMBER: US/09/833,263  
 ? CURRENT FILING DATE: 2001-04-10  
 ? NUMBER OF SEQ ID NOS: 1093  
 ? SOFTWARE: FastSEQ for Windows Version 3.0  
 ? SEQ ID NO 1059  
 ? LENGTH: 440  
 ? TYPE: PPT  
 ? ORGANISM: Homo sapiens  
 US-09-833-263-1059

Query Match 44.8%; Score 47; DB 10; Length 440;  
 Best Local Similarity 50.0%; Pred. No. 32;  
 Matches 9; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 SSGKNEGTNIYNNNEAFKV 19  
 ||||| : ||||| :  
 Db 29 SGKLDNTNEYSNCGKK 46

Db 29 SGKLDNTNEYSNCGKK 46

## RESULT 13

US-10-025-180-1049  
 ? Sequence 1049, Application US/09025180  
 ? Patent No. US20020180104A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Xu, Jiangchun  
 ? APPLICANT: Lodes, Michael J.  
 ? APPLICANT: Secrist, Heather  
 ? APPLICANT: Benson, Darin R.  
 ? APPLICANT: Meagher, Madeleine Joy  
 ? APPLICANT: Stolk, John A.  
 ? APPLICANT: Wang, Tongtong  
 ? APPLICANT: Jiang, Yugu  
 ? APPLICANT: Smith, Carole Lynn  
 ? APPLICANT: King, Gordon E.  
 ? APPLICANT: Wang, Aijun  
 ? APPLICANT: Clapper, Jonathan D.  
 ? APPLICANT: Skelley, Gary R.  
 ? APPLICANT: Fackler, Gary R.  
 ? APPLICANT: Vachek, Thomas  
 ? APPLICANT: Carter, Charles  
 ? TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ? FILE REFERENCE: 210/21,471C14  
 ? CURRENT APPLICATION NUMBER: US/10/025,180  
 ? CURRENT FILING DATE: 2001-12-19  
 ? NUMBER OF SEQ ID NOS: 1123  
 ? SOFTWARE: FastSEQ for Windows Version 4.0  
 ? SEQ ID NO 1049  
 ? LENGTH: 440  
 ? TYPE: PPT  
 ? ORGANISM: Homo sapiens  
 US-10-025-180-1049

Query Match 44.8%; Score 47; DB 14; Length 440;  
 Best Local Similarity 50.0%; Pred. No. 32;  
 Matches 9; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 SSGKNEGTNIYNNNEAFKV 19  
 ||||| : ||||| :  
 Db 29 SGKLDNTNEYSNCGKK 46

## RESULT 14

US-09-741-233A-2  
 ? Sequence 2, Application US/09741233A  
 ? Patent No. US2002015142A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Glover, Lyn W.  
 ? APPLICANT: Budziszewski, Gregory C.  
 ? APPLICANT: Zhou, Gaoz  
 ? APPLICANT: Levin, Joshua Z.  
 ? TITLE OF INVENTION: Heretocide Target Genes and Methods  
 ? FILE REFERENCE: PB/ 3,1127A  
 ? CURRENT APPLICATION NUMBER: US/09/741,233A  
 ? CURRENT FILING DATE: 2001-12-18  
 ? NUMBER OF SEQ ID NOS: 21  
 ? SOFTWARE: Patent In Ver. 2.1  
 ? SEQ ID NO 2  
 ? LENGTH: 605  
 ? TYPE: PPT  
 ? ORGANISM: Arabidopsis thaliana  
 US-09-741-233A-2

Query Match 44.8%; Score 47; DB 10; Length 605;  
 Best Local Similarity 47.4%; Pred. No. 47;  
 Matches 9; Conservative 2; Mismatches 9; Indels 0; Gaps 0;

QY 1 SSGKNEGTNIYNNNEAFKV 19  
 ||||| : ||||| :  
 Db 29 SGKLDNTNEYSNCGKK 46



Db 454 SSNNNGSNTNNNNASSI 472

RESULT 15  
 US-09-925-301-852  
 ; Sequence 852, Application US/09925301  
 ; Patent No. US20020052308A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: PA106  
 ; CURRENT APPLICATION NUMBER: US/09/925,301  
 ; CURRENT FILING DATE: 2001-08-20  
 ; PRIOR APPLICATION NUMBER: PCT/US00/35882  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1694  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 852  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-925-301-852

Query Match 43.8% Score 46; DB 9; Length 396;  
 Best Local Similarity 50.0%; Pred. No. 4;  
 Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;  
 QY 2 SGKNEGNIYNNNEAFKV 19  
 Db 245 TSPENAIYNNNEQV 262

Search completed: October 23, 2003, 11:25:49  
 Job time : 32.4 secs

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OM protein protein search, using sw model

Run on: October 23, 2003, 09:55:37 ; Search time 11.8 Seconds  
(without alignments)  
71.713 Million cell updates/sec

Title: US-09-202-464-34

Perfect score: 105

Sequence: 1 SSGKNEGTNIYNNNEAFKVE 27

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42312858 residues

Total number of hits satisfying chosen parameters: 126117

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/2/aaa/5A\_COVB.ppf:\*
- 2: /cgn2\_6/ptodata/2/aaa/5B\_COVB.ppf:\*
- 3: /cgn2\_6/ptodata/2/aaa/6A\_COVB.ppf:\*
- 4: /cgn2\_6/ptodata/2/aaa/6B\_COVB.ppf:\*
- 5: /cgn2\_6/ptodata/2/aaa/PTCS\_COVB.ppf:\*
- 6: /cgn2\_6/ptodata/2/aaa/backfiles.ppf:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	86	81.9	367	3	US-08-467-023-95 Sequence 95, Appl
2	67	63.8	20	3	US-08-467-023-57 Sequence 57, Appl
3	67	63.8	26	3	US-08-467-023-91 Sequence 91, Appl
4	67	63.8	28	3	US-08-467-023-132 Sequence 132, Appl
5	67	63.8	29	3	US-08-467-023-131 Sequence 131, Appl
6	67	63.8	30	3	US-08-467-023-90 Sequence 90, Appl
7	67	63.8	30	3	US-08-467-023-260 Sequence 260, Appl
8	67	63.8	30	3	US-08-467-023-261 Sequence 261, Appl
9	67	63.8	40	3	US-08-467-023-70 Sequence 70, Appl
10	67	63.8	63	3	US-08-467-023-65 Sequence 65, Appl
11	67	63.8	374	3	US-08-467-023-21 Sequence 21, Appl
12	63	60.3	27	3	US-08-467-023-259 Sequence 259, Appl
13	63	60.0	28	3	US-08-467-023-130 Sequence 130, Appl
14	58	55.2	24	3	US-08-467-023-92 Sequence 92, Appl
15	58	55.2	26	3	US-08-467-023-93 Sequence 93, Appl
16	47	44.8	606	2	US-08-192-806A-6 Sequence 6, Appl
17	47	44.8	606	3	US-09-257-490-6 Sequence 6, Appl
18	44.5	42.4	370	3	US-08-467-023-97 Sequence 97, Appl
19	44	41.9	510	2	US-09-021-323-1 Sequence 1, Appl
20	44	41.9	510	4	US-09-996-243-67 Sequence 67, Appl
21	44	41.0	655	3	US-09-347-833-4 Sequence 4, Appl
22	43	41.0	822	4	US-09-198-452A-506 Sequence 506, Appl
23	43	41.0	913	4	US-09-107-532A-4267 Sequence 4267, Ap
24	43	41.0	1289	2	US-08-542-003-2 Sequence 2, Appl
25	43	41.0	1289	4	US-08-322-760A-2 Sequence 2, Appl
26	43	41.0	1289	4	US-09-236-949-2 Sequence 2, Appl
27	43	41.0	1321	2	US-08-117-31CA-64 Sequence 64, Appl

28	42	40.0	535	4	US-09-604-957-7 Sequence 7, Appl
29	42	40.0	1278	4	US-09-604-957-3 Sequence 3, Appl
30	42	39.0	233	2	US-08-019-145-2 Sequence 2, Appl
31	41	39.0	233	3	US-09-344-889-2 Sequence 2, Appl
32	41	39.0	393	4	US-09-352-991A-1756 Sequence 1756, A
33	41	39.0	666	4	US-09-328-152-6586 Sequence 6586, Ap
34	41	39.0	1433	2	US-08-416-603-2 Sequence 2, Appl
35	40	38.1	142	1	US-08-491-812-2 Sequence 4571, Ap
36	40	38.1	396	4	US-09-134-001C-4571 Sequence 4571, Ap
37	40	38.1	481	3	US-08-943-714-1C Sequence 3, Appl
38	40	38.1	607	1	US-08-355-505-3 Sequence 3, Appl
39	40	38.1	548	4	US-09-601-091-2 Sequence 4, Appl
40	40	38.1	549	4	US-09-101-091-4 Sequence 52, Appl
41	40	38.1	548	4	US-09-338-958A-52 Sequence 52, Appl
42	40	38.1	548	4	US-09-347-586A-52 Sequence 52, Appl
43	40	38.1	618	4	US-09-303-012B-52 Sequence 52, Appl
44	40	38.1	618	4	US-09-303-012B-52 Sequence 52, Appl
45	33.5	37.6	346	4	US-09-457-023-95 Sequence 28, Appl

## ALIGNMENTS

RESULT 1  
US-08-467-023-95  
; Sequence 95, Application US 09447014  
; Patent No. 603084  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.  
; APPLICANT: Follock, Jeanne  
; APPLICANT: Bond, Julian P.J.  
; APPLICANT: Garman, Richard D.  
; APPLICANT: Kuo, Wei-Chang  
; APPLICANT: Young, Stummei H.  
; APPLICANT: Brauer, Andrew  
; APPLICANT: Exley, Mark A.  
; APPLICANT: Powels, Steven B.  
; TITLE OF INVENTION: Amino Acid Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Amelung Pharmaceuticals Corporation, Inc.  
; STREET: 410 Lincoln St  
; CITY: Walpole  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER REACTABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release # 1, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PCR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 US02 (IMI-025CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 95:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 367 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-467-023-95

Query Match 81.9%; Score 86; DP 3; Length 347;  
Best Local Similarity 85.0%; Pred. No. 6,0004;  
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1 SSGKNEGTNIYNNNEAFKVE 20  
Db 332 SSGKTEETNIYNSNEAFKVE 351  
  
RESULT 2  
US-08-467-023-57  
; Sequence 57, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D.;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St.  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467-023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM: 0287PD2;  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 57:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal  
US-08-467-023-57

Query Match 63.8%; Score 67; DP 3; Length 20;  
Best Local Similarity 70.0%; Pred. No. 0.00024;  
Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
  
QY 1 SSGKNEGTNIYNNNEAFKVE 20  
Db 1 SSGKTEEGNIVTKKEAFKVE 20  
  
RESULT 3  
US-08-467-023-91

Sequence 91, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D.;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St.  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467-023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.4 USD2 (IM: 0287PD2;  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 91:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 24 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal  
US-08-467-023-91  
  
Query Match 63.8%; Score 67; DP 3; Length 26;  
Best Local Similarity 70.0%; Pred. No. 0.00012;  
Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
  
QY 1 SSGKNEGTNIYNNNEAFKVE 26  
Db 1 SSGKTEEGNIVTKKEAFKVE 26  
  
RESULT 4  
US-08-467-023-132  
; Sequence 132, Application US/08467024  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D.;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.

```

: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: TITLE OF INVENTION: Japanese Cedar Pollen
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 132:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 28 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08 467-023-132

```

```

Query Match      63.8%  Score 67: DB 3, Length 24;
Best Local Similarity 70.0%  Pred. No. 0.00015;
Matches 14; Conservative 0; Mismatches 6; Indels 0

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CY      1  SSGKNEGTVNINNNEAFKVE 20
      ||||| ||||| |||||
Db      9  SSGKVEGGNIYTKKEAFNVE 28

```

```

RESULT 5
US-08-467-023-131
: Sequence 131: Application US/08467023
: Patent No. 6090386
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.;
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk

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```

: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard
: REGISTRATION NUMBER: 38,872
: REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 141:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 29 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-08-467-023-141

```

```

Query Match      61.8%  Score 67: DB 3, Length 29;
Best Local Similarity 70.0%  Pred. No. 0.00037;
Matches 14; Conservative 0; Mismatches 6; Indels 0

```

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CY      1  SSGKNEGTVNINNNEAFKVE 20
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Db      10 SSGKVEGGNIYTKKEAFNVE 29

```

```

RESULT 5
US-08-467-023-90
: Sequence 90: Application US/08467023
: Patent No. 6095186
: GENERAL INFORMATION:
: APPLICANT: Griffith, Irwin J.;
: APPLICANT: Pollock, Joanne;
: APPLICANT: Bond, Julian F.;
: APPLICANT: Garman, Richard D.;
: APPLICANT: Kuo, Mei-Chang;
: APPLICANT: Yeung, Siu-mei H.;
: APPLICANT: Brauer, Andrew;
: APPLICANT: Exley, Mark A.;
: APPLICANT: Powers, Steven P.;
: TITLE OF INVENTION: Allergenic Proteins And Peptides From
: NUMBER OF SEQUENCES: 261
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
: STREET: 610 Lincoln St
: CITY: Waltham
: STATE: MA
: COUNTRY: USA
: ZIP: 02154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,023
: FILING DATE: June 6, 1995
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/350,225
: FILING DATE: December 6, 1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Jane E. Remillard

```

```

; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (MI: 028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 90:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-30

Query Match 63.8% Score 67 DB 37 Length 30
Best Local Similarity 70.0% Pred. No. 0.00019
Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0

QY 1 SSGKNEGTNIYNNKAEKVE 20
DB 11 SSGKVEGGNIYTKKAEKFNVE 30

RESULT 7
US-08-467-023-260
; Sequence 260 Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides Prior
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.3, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (MI: 028CPD2)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 260:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
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```

US-08-467-023-240
Query Match 63.8% Score 67 DB 37 Length 30
Best Local Similarity 70.0% Pred. No. 0.00019
Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0

QY 1 SSGKNEGTNIYNNKAEKVE 20
DB 9 SSGKVEGGNIYTKKAEKFNVE 24

RESULT 8
US-08-467-023-241
; Sequence 241 Application US/08467024
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides Prior
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.3, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (MI: 028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 241:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-241

Query Match 63.8% Score 67 DB 37 Length 30
Best Local Similarity 70.0% Pred. No. 0.00019
Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0

QY 1 SSGKNEGTNIYNNKAEKVE 20
DB 9 SSGKVEGGNIYTKKAEKFNVE 24

RESULT 9
```

US-08-467-023-70

Sequence 70, Application US/08467023  
Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467.023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/POCKET NUMBER: 025.6 USD2 (IMI-028CEN2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 70:

SEQUENCE CHARACTERISTICS:

LENGTH: 40 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-70

Query Match: 63.8%; Score 67; DB 3; Length 40;

Best Local Similarity 70.0%; Pred. No. 0.00054;

Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY : SSGKNEGTNIYNNNEAFKVE 20

||||| ||||| ||||| |||||

DB 21 SSGKYEGGNIYTKKEAFNVE 40

RESULT 10

US-08-467-023-65

Sequence 65, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467.023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/POCKET NUMBER: 025.6 USD2 (IMI-028CEN2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:

LENGTH: 63 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-65

Query Match: 63.8%; Score 67; DB 3; Length 63;

Best Local Similarity 70.0%; Pred. No. 0.0009;

Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY : SSGKNEGTNIYNNNEAFKVE 20

||||| ||||| ||||| |||||

DB 21 SSGKYEGGNIYTKKEAFNVE 40

RESULT 11

US-08-467-023-2

Sequence 2, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:



US-08-467-023-130

Query Match 60.0%; Score 63; DB 3; Length 28;  
 Best Local Similarity 65.0%; Pred. No. 0.005;  
 Matches 13; Conservative 0; Mismatches 7; Indels 0;

QY 1 SSGKNEGTNIYNNKFAKE 20  
 ||||| ||||| |||||  
 DB 9 SSGRYEGGNIYTKKFAKE 28

## RESULT 14

US-08-467-023-92

Sequence 92, Application US/08467023  
 Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

## COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: C25.6 USD2 (IMI-028CFD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 92:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 24 amino acids  
 TYPE: amino acid

TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal

US-08-467-023-92

Query Match 55.2%; Score 59; DB 3; Length 24;  
 Best Local Similarity 70.6%; Pred. No. 0.009;  
 Matches 12; Conservative 0; Mismatches 5; Indels 0;

QY 1 SSGKNEGTNIYNNKFAK 17

||||| ||||| |||||

DB 7 SSGRYEGGNIYTKKFAK 23

## RESULT 15

US-08-467-023-93

Sequence 93, Application US/08467023  
 Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-mei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

## COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: C25.6 USD2 (IMI-028CFD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 93:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 26 amino acids  
 TYPE: amino acid

TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal

US-08-467-023-93

Query Match 55.2%; Score 59; DB 3; Length 26;  
 Best Local Similarity 70.6%; Pred. No. 0.0087;  
 Matches 12; Conservative 0; Mismatches 5; Indels 0;

QY 1 SSGKNEGTNIYNNKFAK 19

||||| ||||| |||||

DB 9 SSGRYEGGNIYTKKFAK 25

Search completed: October 23, 2003, 11:22:41

Job file: 11.8 seqs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 11:02:03 ; Search time 30.4 Seconds  
(without alignments)  
110.171 Million cell updates/sec

Title: US-09-202-464-35

Perfect score: 104

Sequence: 1 YNNNEAFKVENGAAPQITK 20

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

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3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
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8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
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11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
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13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	96	92.3	367	11	US-09-847-208-109
3	92	88.5	346	11	US-09-847-208-67
4	74	71.2	374	11	US-09-847-208-68
5	62	59.6	15	12	US-10-354-240-80
6	54	51.9	20	12	US-10-354-240-12
7	54	51.9	31	12	US-10-354-240-5
8	48	46.2	15	12	US-10-354-240-79
9	48	46.2	413	9	US-09-815-242-4908
10	46	44.2	3158	9	US-09-815-242-12611
11	45	43.3	63	14	US-10-336-869-30
12	43	41.3	15	12	US-10-354-240-81
13	43	41.3	133	12	US-10-122-348-25
14	43	41.3	377	12	US-10-122-348-3
15	43	41.3	380	12	US-10-122-348-2

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16 43 41.3 548 9 US-09-847-208-59A-52
17 43 41.3 548 9 US-09-847-208-52
18 43 41.3 548 11 US-09-847-208-797-52
19 43 41.3 1265 9 US-09-815-242-5908
20 43 41.3 1265 9 US-09-815-242-1317
21 43 41.3 6281 3 US-09-815-242-12996
22 43 41.3 143 9 US-09-815-242-12996
23 42 40.4 375 11 US-09-815-242-12996
24 42 40.4 375 11 US-09-815-242-12996
25 42 40.4 375 11 US-09-815-242-12996
26 42 40.4 850 9 US-09-815-242-12996
27 42 40.4 5793 9 US-09-815-242-12996
28 42 40.4 69 15 US-10-142-2015-5
29 42 40.4 235 15 US-10-142-2015-2
30 42 40.4 365 12 US-10-142-2015-19
31 42 40.4 551 9 US-09-815-242-13394
32 42 40.4 583 12 US-10-369-378-2
33 42 40.4 613 12 US-10-369-378-59
34 42 40.4 848 15 US-10-106-698-6388
35 42 40.4 916 9 US-09-815-242-12996
36 42 40.4 916 9 US-09-815-242-12996
37 42 40.4 916 9 US-09-815-242-12996
38 42 40.4 916 9 US-09-815-242-12996
39 42 40.4 916 14 US-10-095-380-1066
40 42 40.4 916 15 US-10-095-380-1066
41 42 40.4 916 15 US-10-095-380-1066
42 42 40.4 916 15 US-10-095-380-1066
43 42 40.4 916 15 US-10-095-380-1066
44 42 40.4 916 15 US-10-095-380-1066
45 42 40.4 916 15 US-10-095-380-1066

```

#### ALIGNMENTS

```

RESULT 1
US-09-847-208-59
; Sequence 58, Application US/09847208
; Publication No. US20030092190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoceng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE OF INVENTION: IGE MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: US67,002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 375
; TYPE: PRT
; ORGNISV: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-59

```

Query Match 100.0% Score 104, DB 117 Length 375  
Best Local Similarity 100.0% Pred. No. 2.6e-29  
Matches 20, Conservative 0, Mismatches 0, Indels 0, Gaps 0

```

QY 1 YNNNEAFKVENGAAPQITK 20
    ||||| ||| ||| |||
DB 342 YNNNEAFKVENGAAPQITK 361

```

```

RESULT 2
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030092190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoceng

```

Query Match 92.3% Score 95; DB 11; Length 167;  
Best Local Similarity 90.0%; Pred. No. 5.6e-08;  
Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
DB 342 YNSNEAFKVENGSAAAPQLTK 361  
RESULT 3  
US-09-847-208-67  
Sequence 67, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 109  
LENGTH: 367  
TYPE: PRT  
ORGANISM: Juniperus ashei (Ozark white cedar);  
US-09-847-208-109

Query Match 92.3% Score 95; DB 11; Length 167;  
Best Local Similarity 90.0%; Pred. No. 5.6e-08;  
Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
DB 342 YNSNEAFKVENGSAAAPQLTK 361

RESULT 3  
US-09-847-208-67  
Sequence 67, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 67  
LENGTH: 346  
TYPE: PRT  
ORGANISM: Cupressus arizonica  
US-09-847-208-67

Query Match 88.5% Score 92; DB 11; Length 166;  
Best Local Similarity 85.0%; Pred. No. 2.5e-07;  
Matches 17; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
DB 321 YNSNEAFKVENGSAAAPQLTK 340

RESULT 4  
US-09-847-208-68  
Sequence 68, Application US/09847208  
Publication No. US20030082190A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: UC67.002A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 68  
LENGTH: 374  
TYPE: PRT  
ORGANISM: Cryptomeria japonica (Japanese cedar);  
US-09-847-208-68

Query Match 92.3% Score 94; DB 11; Length 374;  
Best Local Similarity 90.0%; Pred. No. 0.0031;  
Matches 14; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
DB 342 YTKKRAFKVENGSAAAPQLTK 141

RESULT 5  
US-10-354-240-80  
Sequence 80, Application US/10354240  
Publication No. US20030145847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kuno, Akitsugu  
APPLICANT: Daitiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kuno, Kousuke  
TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO 16001  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2001-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/140,504  
PRIOR FILING DATE: 1997-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: Patent In version 3.1  
SEQ ID NO 80  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE: MISS FEATURE  
NAME/KEY: (1), (15)  
LOCATION: (1), (15)  
OTHER INFORMATION: Cry.1 pep 150, Figure 1, Row 66  
US-10-354-240-80

Query Match 59.8% Score 62; DB 12; Length 15;  
Best Local Similarity 40.0%; Pred. No. 0.0007;  
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 AFKVENGSAAAPQLTK 20  
DB 1 AFKVENGSAAAPQLTK 15

RESULT 6  
US-10-354-240-12  
Sequence 12, Application US/10354240  
Publication No. US20030145847A1  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kuno, Akitsugu  
APPLICANT: Daitiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kuno, Kousuke  
TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO 16001  
CURRENT APPLICATION NUMBER: US/10/354,240  
CURRENT FILING DATE: 2001-01-29  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
PRIOR APPLICATION NUMBER: US 09/140,524  
PRIOR FILING DATE: 1997-09-09  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: Patent In version 3.1  
SEQ ID NO 12  
LENGTH: 20  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
US-10-354-240-12

Query Match: 51.9%, Score 54; DB 12; Length 20;  
Best Local Similarity 100.0%; Pred. No. C.022;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YNNNEAFKVE 10  
| | | | | | | | | |  
DB 11 YNNNEAFKVE 20

## RESULT 7

US-10-354-240-5  
; Sequence 5, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akino  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-10301  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; PRIOR FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 31  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
US-10-354-240-5

Query Match: 51.9%, Score 54; DB 12; Length 31;  
Best Local Similarity 100.0%; Pred. No. 0.038;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YNNNEAFKVE 10  
| | | | | | | | | |  
DB 11 YNNNEAFKVE 20

## RESULT 8

US-10-354-240-79  
; Sequence 79, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akino  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-10301  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; PRIOR FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 79  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 65

US-10-354-240-79

Query Match: 44.2%, Score 48; DB 12; Length 15;  
Best Local Similarity 54.4%; Pred. No. 0.167;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 YNNNEAFKVEGSA 14  
| | | | | | | | | |  
DB 1 YTKKFAFVFNSSA 14

## RESULT 9

US-09-815-242-4908  
; Sequence 4908, Application US/09815242  
; Patent No. US20020061599A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Darie  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant T.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; FILE REFERENCE: EXTRACTION Puckayevus  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/291,018  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/204,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/203,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/242,579  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/263,109  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4908  
; LENGTH: 413  
; TYPE: PRT  
; ORGANISM: Enterococcus faecalis  
US-09-815-242-4908

Query Match: 44.2%, Score 48; DB 12; Length 413;  
Best Local Similarity 47.4%; Pred. No. 9.8;  
Matches 9; Conservative 4; Mismatches 7; Indels 0; Gaps 0;

OY 1 YNNNEAFKVEGSAAPCUT 19  
| | | | | | | | | |  
DB 22: FNNAAEAKINGVNAVPEST 19

## RESULT 10

US-09-815-242-12611  
; Sequence 12611, Application US/09815242  
; Patent No. US20020061599A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Darie  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant T.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard

```

; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.C11A
; CURRENT APPLICATION NUMBER: US/09/815,742
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/131,075
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version: 4.0
; SEQ ID NO: 12611
; LENGTH: 3158
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
; US-09-815 242-12611

Query Match 44.2% Score 46; DB 9; Length 3158;
Best Local Similarity 47.6%; Pred. No. 2,2e+02;
Matches 10; Conservative 4; Mismatches 5; Indels 2; Gaps 1;

CY 1 YNN-NEAPKVENGAARQJST 19
DB 535 YNNAANQAQIANGTPTVLT 555

RESULT 11
US-10-036-869 30
; Sequence 30, Application US/10036869
; Publication No. US200201516A1
; GENERAL INFORMATION:
; APPLICANT: McKesson, James A.
; TITLE OF INVENTION: CARRIER-DNA COMPLEXES CONTAINING DNA
; ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
; THERAPY
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Connolly, Bove, Lodge, & Hutz
; STREET: 1220 Market Street, P.O. Box 2207
; CITY: Wilmington
; STATE: Delaware
; COUNTRY: U.S.A.
; ZIP: 19899
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOCS/MS DOS
; SOFTWARE: Patent In Release #1.9, Version #1.25
; CURRENT APPLICATION NUMBER: US/10/036,869
; FILING DATE: 29-Nov-2002; 51516A1-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,526
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 09/608,845
; FILING DATE: 16-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: McMorrow Jr., Robert G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (302) 658-9141
; TELEFAX: (302) 658-5613
; INFORMATION FOR SEQ ID NO: 30:

```

```

; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 30:
US-10-036 869-10
Query Match 41.3% Score 43; DB 12; Length 10;
Best Local Similarity 60.0%; Pred. No. 1,2;
Matches 9; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

CY 1 YNNSEAFVENGAAR 16
DB 15 YNNSEAFVENGAAR 16

RESULT 12
US-10-354 240-41
; Sequence 81, Application US/10035420
; Publication No. US200201516A1
; GENERAL INFORMATION:
; APPLICANT: Sandoz, Tossio
; APPLICANT: Kuno, Akio
; APPLICANT: Saito, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kido, Kenjiro
; TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Autoimmune
; FILE REFERENCE: SEQ ID NO: 1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/02740
; PRIOR FILING DATE: 1997-04-19
; PRIOR APPLICATION NUMBER: US 06/742,824
; PRIOR FILING DATE: 1998-08-04
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent In Version 3.1
; SEQ ID NO: 81
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptheria japonica
; FEATURE:
; NAME/KEY: VISC FEATURE
; LOCATION: 23-1153
; OTHER INFORMATION: Cyclic peptide, Figure 1, Row 47
; US-10-354 240-81

Query Match 41.3% Score 43; DB 12; Length 10;
Best Local Similarity 60.0%; Pred. No. 1,2;
Matches 9; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

CY 1 YNNSEAFVENGAAR 16
DB 15 YNNSEAFVENGAAR 16

RESULT 13
US-10-122-348 25
; Sequence 25, Application US/10122348
; Publication No. US200201516A1
; GENERAL INFORMATION:
; APPLICANT: Tuszynski, George
; APPLICANT: Williams, Taliv
; TITLE OF INVENTION: ANGIOSTATIN: A CYS-SEPVAL THR CYS-GLY SPECIFIC TUMOR
; FILE REFERENCE: C220610028
; CURRENT APPLICATION NUMBER: US/10/122,348
; CURRENT FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US/09/537,845
; PRIOR FILING DATE: 2002-06-27
; PRIOR APPLICATION NUMBER: 60/440,309
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: 60/176,626
; PRIOR FILING DATE: 2002-01-19

```

```

; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Xaa represents an unknown amino acid
US-10-122-348-25

```

```

Query Match      41.3%; Score 43; DB 12; Length 133;
Best Local Similarity 55.6%; Pred. No. 16;
Matches 10; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

```

```

Qy      3 NNEAFKVENGSAAAPQLTK 20
      ||||| : ||| : ||
Db      104 NNEAIRNMGSLASQATK 121

```

```

RESULT 14
US-10-122-348-3
; Sequence 3, Application US/10122348
; Publication No. US20030180295A1
; GENERAL INFORMATION:
; APPLICANT: Tuszyński, George
; APPLICANT: Williams, Taffy
; TITLE OF INVENTION: ANGIOCIDIN: A CYS-SER-VAL-THR-CYS-GLY SPECIFIC TUMOR
; TITLE OF INVENTION: CELL ADHESION RECEPTOR
; FILE REFERENCE: 07206.0028
; CURRENT APPLICATION NUMBER: US/10122.348
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US/09/597,845
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 60/140,309
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: 60/176,626
; PRIOR FILING DATE: 2000-01-19
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Xaa represents an unknown amino acid
US-10-122-348-3

```

```

Query Match      41.3%; Score 43; DB 12; Length 177;
Best Local Similarity 55.6%; Pred. No. 55;
Matches 10; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

```

```

Qy      3 NNEAFKVENGSAAAPQLTK 20
      ||||| : ||| : ||
Db      348 NNEAIRNMGSLASQATK 365

```

```

RESULT 15
US-10-122-348-2
; Sequence 2, Application US/10122348
; Publication No. US20030180295A1
; GENERAL INFORMATION:
; APPLICANT: Tuszyński, George
; APPLICANT: Williams, Taffy
; TITLE OF INVENTION: ANGIOCIDIN: A CYS-SER-VAL-THR-CYS-GLY SPECIFIC TUMOR
; TITLE OF INVENTION: CELL ADHESION RECEPTOR
; FILE REFERENCE: 07206.0028
; CURRENT APPLICATION NUMBER: US/10122.348
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US/09/597,845
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 60/140,309
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: 60/176,626

```

```

; PRIOR FILING DATE: 2000-01-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Xaa represents an unknown amino acid
US-10-122-348-2

```

```

Query Match      41.3%; Score 43; DB 12; Length 180;
Best Local Similarity 55.6%; Pred. No. 56;
Matches 10; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

```

```

Qy      1 NNEAFKVENGSAAAPQLTK 20
      ||||| : ||| : ||
Db      351 NNEAIRNMGSLASQATK 368

```

```

Search completed: October 23, 2003, 11:25:49
Job time: 10.4 sec

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:55:37 ; Search time 11.9 Seconds  
(without alignments)  
71.713 Million cell updates/sec

Title: US-09-202-464-35

Perfect score: 104

Sequence: 1 YNNNEAFKVENGAAPQLTK 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 3287.7 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 3287.7

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PGTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	96	92.3	367	3	US-08-467-023-95
2	74	71.2	20	3	US-08-467-023-58
3	74	71.2	63	3	US-08-467-023-65
4	74	71.2	374	3	US-08-467-023-2
5	67	64.4	16	3	US-08-467-023-19
6	66	63.5	16	2	US-08-773-008-4
7	63	60.6	370	3	US-08-467-023-97
8	48	46.2	446	4	US-09-107-532A-3857
9	45	43.3	63	3	US-08-985-526-30
10	43	41.3	20	3	US-08-467-023-59
11	43	41.3	23	2	US-08-773-008-3
12	43	41.3	257	3	US-08-981-256A-12
13	43	41.3	377	3	US-08-588-077A-27
14	43	41.3	388	1	US-08-429-742-4
15	43	41.3	548	4	US-09-601-091-2
16	43	41.3	548	4	US-09-601-091-4
17	43	41.3	548	4	US-09-398-395A-52
18	43	41.3	548	4	US-09-887-586A-52
19	43	41.3	548	4	US-09-895-752-52
20	43	41.3	548	4	US-09-903-012B-52
21	43	41.3	1162	4	US-09-134-001C-4008
22	42	40.4	128	4	US-09-252-991A-28235
23	42	40.4	147	4	US-08-936-165A-498
24	42	40.4	778	4	US-09-114-001C-3868
25	41	39.4	585	4	US-09-114-001C-4914
26	41	39.4	914	4	US-09-193-562B-28
27	41	39.4	914	4	US-09-623-624-6

Sequence 3, Appl  
Sequence 3, Appl  
Sequence 26896, A  
Sequence 1, Appl  
Sequence 1, Appl  
Sequence 4, Appl  
Sequence 2, Appl  
Sequence 1, Appl  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 484, Ap  
Sequence 2, Appl  
Sequence 41-4, Ap  
Sequence 17, Appl  
Sequence 45, Appl

## ALIGNMENTS

RESULT 1  
US-08-467-023-95

Sequence 95, Application US/08467023

Patent No. 6090184

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin C.

APPLICANT: Pollock, Joanne

APPLICANT: Bond, Julian F.

APPLICANT: Garmag, Richard D.

APPLICANT: Luo, Xue-chang

APPLICANT: Young, Andrew

APPLICANT: Brauet, Mark A.

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St.

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIA TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentL Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/310,224

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Pettitard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025, 6 US20 (IM1-026CPD01)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 95:

SEQUENCE CHARACTERISTICS:

LENGTH: 367 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-467-023-95

Query Match 92.3% Score 96; DB 3; Length 157;  
 Best Local Similarity 90.0%; Pred. No. 1,1e-08;  
 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
 |||||:|||||:|||||  
 DB 342 YNSNEAFKVENGSAAAPQLTK 161

## RESULT 2

US-08-467-023-58

Sequence 38, Application US/08467023  
 Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-wei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467.023  
 FILING DATE: June 6, 1995

CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,672  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (INT: 025CPT23)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 58:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 20 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-09-467-023-58

Query Match 71.2% Score 74; DB 3; Length 20;  
 Best Local Similarity 70.0%; Pred. No. 2e-06;  
 Matches 14; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
 |||||:|||||:|||||  
 DB 1 YTKKEAFNVENGNATPQLTK 20

## RESULT 3

US-08-467-023-65

Sequence 62, Application US/08467023

Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-wei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467.023  
 FILING DATE: June 6, 1995

CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,672  
 REFERENCE/DOCKET NUMBER: 024.6 USD2 (INT: 025CPT23)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 61 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: polypep  
 FRAGMENT TYPE: internal  
 US-08-467-023-65

Query Match 71.2% Score 74; DB 3; Length 63;  
 Best Local Similarity 70.0%; Pred. No. 9.3e-06;  
 Matches 14; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGSAAAPQLTK 20  
 |||||:|||||:|||||  
 DB 1 YTKKEAFNVENGNATPQLTK 50

## RESULT 4

US-08-467-023-2

Sequence 2, Application US/08467023  
 Patent No. 6090386  
 GENERAL INFORMATION:  
 APPLICANT: Griffith, Irwin J.;  
 APPLICANT: Pollock, Joanne;  
 APPLICANT: Bond, Julian F.;  
 APPLICANT: Garman, Richard D;  
 APPLICANT: Kuo, Mei-Chang;  
 APPLICANT: Yeung, Siu-wei H.;  
 APPLICANT: Brauer, Andrew;  
 APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.

```

1 OPERATING SYSTEM: PC DOS/MK/MS-DOS
2
3 SOFTWARE: Patent In Release #1 3, Version #1 25
4
5 CURRENT APPLICATION DATA:
6
7 APPLICATION NUMBER: 05/08467, 053
8
9 FILING DATE: June 6, 1995
10
11 CLASSIFICATION: 424
12
13 PRIOR APPLICATION DATA:
14
15 APPLICATION NUMBER: 09/480,226
16
17 FILING DATE: December 6, 1994
18
19 ATTORNEY/AGENT INFORMATION:
20
21 NAME: Case E. Perillard
22
23 REGISTRATION NUMBER: 38,472
24
25 REFERENCE/DOCKET NUMBER: 024- US2- IM: 02ACPE29
26
27 TELECOMMUNICATION INFORMATION:
28
29 TELEPHONE: (617) 227-7482
30
31 TELEFAX: (617) 227-6941
32
33 INFORMATION FOR SEQ ID NO: 13:
34
35 SEQUENCE CHARACTERISTICS:
36
37 LENGTH: 16 a-amino acids
38
39 TYPE: Amino acid
40
41 TOPOLOGY: Linear
42
43 MOLECULE TYPE: Peptide
44
45 FRAGMENT TYPE: Internal
46
47 ORIGINAL SOURCE:
48
49 ORGANISM: Cyprinodon bipinnatus
50
51 US 06-467-023-19
52
53 Query Watch 44.4% Score 67; DB 1; Length 16;
54 Best Local Similarity 41.2%; Prod No. 2,50-06;
55 Matches 13; Conservative 1; Mismatches 2; Indels
56
57 QY 5 EAFKVENSGRAAPQEK 20
58 || || || || ||
59 DB : EAFKVENSGRAAPQEK 16

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; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-773-008-4

Query Match 63.5%; Score 66; DB 2; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.8e 04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 EAFKVENGAAPQLTK 20
DB 1 EAFVNGXATPQLTK 16

RESULT 7
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Coanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane S. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 US22 (IM-028)(P02)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-97

Query Match 60.6%; Score 63; DB 3; Length 370;
Best Local Similarity 81.2%; Pred. No. 3.8e 04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 EAFKVENGAAPQLTK 20
DB 1 EAFVNGXATPQLTK 16

RESULT 8
US-09-107-512A-3857
; Sequence 1857, Application US/09107512A
; Patent No. 6581275
; GENERAL INFORMATION:
; APPLICANT: Type A Chemical System and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCLUS FAMILIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 110
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME WAREFARETS CORPORATION
; STREET: 100 Bayview Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM
; COMPUTER: PC
; OPERATING SYSTEM: Unknown
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,512A
; FILING DATE: 10 Jun 1999
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 88084138
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 88081542
; FILING DATE: July 7, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arnold, Pamela Denoko
; REGISTRATION NUMBER: 40,480
; REFERENCE/DOCKET NUMBER: 500-412
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 693-5007
; TELEFAX: (617) 693-4207
; INFORMATION FOR SEQ ID NO: 1857:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 446 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: Disc feature
; LOCATION: 101-446
; SEQUENCE DESCRIPTION: SEQ ID NO: 1857:
US-09-107-512A-3857

Query Match 46.2%; Score 48; DB 4; Length 446;
Best Local Similarity 47.4%; Pred. No. 3.12;
Matches 9; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGAAPQLTK 13
DB 254 FNAEALKNVCCAYPT 272

RESULT 9
US-08-985-526-30
; Sequence 10, Application US/08985526
; Patent No. 6080728
; GENERAL INFORMATION:

```

```

APPLICANT: Mixson, James A
TITLE OF INVENTION: CARRIER-DNA COMPLEXES CONTAINING DNA
TITLE OF INVENTION: ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
TITLE OF INVENTION: THERAPY
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Connelly, Bove, Lodge, & Hutzel
STREET: 1220 Market Street, P.O. Box 2707
CITY: Wilmington
STATE: Delaware
COUNTRY: U.S.A.
ZIP: 19899
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,526
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,845
FILING DATE: 16-JUL-1996
ATTORNEY/AGENT INFORMATION:
NAME: McMorris Jr., Robert G
TELEPHONE: (302) 658-9141
TELEFAX: (302) 658-5613
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 63 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-985-526-30

Query Match 43.3% Score 45; PB 3; Length 63;
Best Local Similarity 43.8%; Pred. No. 0.94;
Matches 7; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENGAAP 16
DB 15 YNNNEETVDSGKSP 30

RESULT 10
US-08-467-023-59
Sequence 59, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Wei-Chang;
APPLICANT: Yeung, Siu-wei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St.
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: 1996-07-16
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 05/150,225
FILING DATE: December 5, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jang E. Samilland
REGISTRATION NUMBER: 37,972
REFERENCE/DOCKET NUMBER: 02-6 US02 (X1)-028CE02
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1617-227-1400
TELEFAX: 1617-227-5041
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Peptide
FRAGMENT TYPE: Internal
US 08-467-023-59

Query Match 41.1% Score 43; PB 3; Length 27;
Best Local Similarity 45.0%; Pred. No. 0.93;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NGSAAPOUTK 27
DB 1 NGSAAPOUTK 10

RESULT 11
US-08-467-008-3
Sequence 3, Application US/08467008
Patent No. 5974401
GENERAL INFORMATION:
APPLICANT: SANGU, Sang-wo
APPLICANT: HINO, Eisuke
APPLICANT: KIRIKOTO, Masashi
TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME,
TITLE OF INVENTION: AND USES THEREOF
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROOKLYN AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/773,008
FILING DATE: 24-DEC-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/354,815
FILING DATE: 08-DEC-1994
APPLICATION NUMBER: JP 342017
FILING DATE: 27-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Ailee C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: SANGU-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633

```

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; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-773-008-3

Query Match 41.3%; Score 43; DB 2; Length 23;
Best Local Similarity 80.0%; Pred. No. 0.6;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 11 NGSAAAPQLTK 20
Db : NGNATPQLTK 10

RESULT 12
US-08-981-256A-12
; Sequence 12, Application US/08981-256A
; Patent No. 6046942
; GENERAL INFORMATION:
; APPLICANT: Meinhard Hasslacher et al.
; TITLE OF INVENTION: (S)-HYDROXY-NITRILE-LYASE FROM HEVEA BRASILIENSIS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
; STREET: 2033 K Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/981-256A
; FILING DATE: December 22, 1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Matthew Jacob
; REGISTRATION NUMBER: 25,154
; REFERENCE/DOCKET NUMBER: 1553-02:112
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 721-8200
; TELEFAX: (202) 721-8250
; TELEX:
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 257 amino acid residues
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-981-256A-12

Query Match 41.3%; Score 43; DB 3; Length 257;
Best Local Similarity 45.0%; Pred. No. 12;
Matches 9; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 YNNNEAFKVENSAAPQLTK 20
Db 222 YPKVKYKVEGDHKLQLTK 241

RESULT 13
US-08-868-077A-27
; Sequence 27, Application US/08889077A
; Patent No. 6020143
; GENERAL INFORMATION:
; APPLICANT: ST. GEORGE HYSLAF, PETER F
; APPLICANT: ROMMERS, JOHANNA V
; APPLICANT: FRASER, PAUL E
; TITLE OF INVENTION: GENETIC SPONGES AND PROTEINS RELATED
; TITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREOF
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: JERNER, DAVID, LITFENBERG, KRIEVOLOZ & VENTILE
; STREET: 400 SOUTH AVENUE WEST
; CITY: WESTFIELD
; STATE: N.J.
; COUNTRY: USA
; ZIP: 07090-1497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS MS DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/903,641
; FILING DATE: 26 JAN 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: PALISI, THOMAS V
; REGISTRATION NUMBER: 36,423
; REFERENCE/DOCKET NUMBER: SUBPENDING 10, 010 CIP CIP CIP IV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 654-5000
; TELEFAX: (908) 654-5066
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 377 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-888-077A-27

Query Match 42.3%; Score 43; DB 3; Length 377;
Best Local Similarity 55.6%; Pred. No. 19;
Matches 10; Conservative 17; Mismatches 7; Indels 0; Gaps 0;

QY 3 NNEAFKVENSAAPQLTK 20
Db 348 NNEAFKVENSAAPQLTK 365

RESULT 14
US-08-429-742-4
; Sequence 4, Application US/08429742
; Patent No. 5696257
; GENERAL INFORMATION:
; APPLICANT: Kennedy, Jacqueline
; APPLICANT: Bazac, G. Fernando
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: PURIFIED HUMAN T CELL ANTIGENS AND
; TITLE OF INVENTION: RELATED REAGENTS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: PatentIn Release #1.2, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICANT: PatentIn  
FILING DATE: 26-APR-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Ching, Edwin P.  
REGISTRATION NUMBER: 34,090  
REFERENCE/DOCKET NUMBER: DX0505  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-852-9196  
TELEFAX: 415-496-1200  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 388 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-429-742-4

Query Match 41.3%; Score 43; DB 1; Length 388;  
Best Local Similarity 56.2%; Pred. No. 20;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 NNNEAFKVENGSAAAPQ 17  
||| ||| ||| |||  
Db 335 NNEETSSQENSSQAPQ 350

RESULT 15  
US-09-601-091-2  
Sequence 2, Application US/09601091  
Patent No. 634238C  
GENERAL INFORMATION:  
APPLICANT: Colby, S. M. et al.  
TITLE OF INVENTION: Germacrene C Synthase Gene of Lycopersicon Esculentum  
FILE REFERENCE: 4630-55758  
CURRENT APPLICATION NUMBER: US/09/601,091  
CURRENT FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: PCT/US99/02133  
PRIOR FILING DATE: 1999-02-02  
PRIOR APPLICATION NUMBER: US 60/073,579  
PRIOR FILING DATE: 1998-02-02  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 548  
TYPE: PRT  
ORGANISM: Lycopersicon esculentum  
US-09-601-091-2

Query Match 41.3%; Score 43; DB 4; Length 548;  
Best Local Similarity 56.2%; Pred. No. 30;  
Matches 9; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 NNNEAFKVENGSAAAPQ 17  
||| ||| ||| |||  
Db 181 NNNSLKVEVGELTQ 196

Search completed: October 23, 2003, 11:02:42  
Job time : 12.8 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 23, 2003, 11:02:03 / Search time 30.4 seconds  
(without alignments)  
1:0.171 Million cell updates/sec

Title: US-09-202-464-36  
Perfect score: 100  
Sequence: 1 NGSAAPOUTNAGVTC:LS 20

Scoring table: BLOSUM62

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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- 3: /cgn2\_6/pdodata/1/pubpaa/US06\_NEW\_PUB.pep:
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- 5: /cgn2\_6/pdodata/1/pubpaa/US07\_NEW\_PUB.pep:
- 6: /cgn2\_6/pdodata/1/pubpaa/US07\_PUBCOMB.pep:
- 7: /cgn2\_6/pdodata/1/pubpaa/US08\_NEW\_PUB.pep:
- 8: /cgn2\_6/pdodata/1/pubpaa/US08\_PUBCOMB.pep:
- 9: /cgn2\_6/pdodata/1/pubpaa/US09A\_PUBCOMB.pep:
- 10: /cgn2\_6/pdodata/1/pubpaa/US09B\_PUBCOMB.pep:
- 11: /cgn2\_6/pdodata/1/pubpaa/US09C\_PUBCOMB.pep:
- 12: /cgn2\_6/pdodata/1/pubpaa/US09\_NEW\_PUB.pep:
- 13: /cgn2\_6/pdodata/1/pubpaa/US09A\_PUBCOMB.pep:
- 14: /cgn2\_6/pdodata/1/pubpaa/US09B\_PUBCOMB.pep:
- 15: /cgn2\_6/pdodata/1/pubpaa/US09C\_PUBCOMB.pep:
- 16: /cgn2\_6/pdodata/1/pubpaa/US10\_NEW\_PUB.pep:
- 17: /cgn2\_6/pdodata/1/pubpaa/US10\_PUBCOMB.pep:
- 18: /cgn2\_6/pdodata/1/pubpaa/US10\_PUBCOMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	100	100.0	375	11	US-09-847-208-58
2	87	87.0	374	11	Sequence 58, Appl
3	73	73.0	367	11	Sequence 68, Appl
4	70	70.0	15	12	US-09-847-208-109
5	67	67.0	15	12	Sequence 107, App
6	64	64.0	346	11	Sequence 82, Appl
7	63	63.0	397	11	Sequence 8, Appl
8	54	54.0	15	12	Sequence 17, Appl
9	46	46.0	196	15	US-10-354-240-83
10	46	46.0	392	11	Sequence 83, Appl
11	46	46.0	396	11	Sequence 8, Appl
12	46	46.0	397	11	Sequence 14, Appl
13	46	46.0	399	11	Sequence 15, Appl
14	45	45.0	279	9	US-09-847-208-14
15	45	45.0	290	9	Sequence 44, Appl
					Sequence 16, Appl

16	43	43.0	290	10	US-09-910-174A-32
17	45	45.0	290	10	Sequence 32, Appl
18	45	45.0	290	10	Sequence 11, App
19	45	45.0	290	14	US-10-354-240-11
20	45	45.0	290	14	Sequence 21, App
21	45	45.0	290	14	Sequence 21, App
22	45	45.0	414	3	US-09-847-208-58
23	43	43.0	15	12	US-10-354-240-83
24	42	42.0	290	10	Sequence 80, Appl
25	42	42.0	290	10	Sequence 21, App
26	42	42.0	290	14	Sequence 457A, App
27	42	42.0	290	14	Sequence 2, Appl
28	42	42.0	290	14	Sequence 2, Appl
29	42	42.0	290	15	US-10-354-240-83
30	42	42.0	290	3	US-09-847-208-58
31	42	42.0	290	10	Sequence 42, Appl
32	42	42.0	290	10	Sequence 8, Appl
33	42	42.0	290	10	Sequence 11, App
34	42	42.0	290	10	Sequence 11, App
35	42	42.0	290	10	Sequence 12, Appl
36	42	42.0	290	10	Sequence 12, Appl
37	42	42.0	290	10	Sequence 9, Appl
38	42	42.0	290	14	Sequence 4, Appl
39	42	42.0	290	14	Sequence 4, Appl
40	42	42.0	290	15	US-10-354-240-83
41	42	42.0	290	15	Sequence 2, Appl
42	42	42.0	290	15	Sequence 4, Appl
43	42	42.0	290	15	Sequence 4, Appl
44	41	41.0	290	15	Sequence 1, Appl
45	41	41.0	290	15	Sequence 11, App

## ALIGNMENTS

RESULT 1  
US-09-847-208-58  
Sequence 58, Application US/09847208  
Publication No. US20030862100A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Baocheng  
TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
FILE REFERENCE: US67,352A  
CURRENT APPLICATION NUMBER: US/09/847,208  
CURRENT FILING DATE: 2001-05-01  
NUMBER OF SEQ ID NOS: 177  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 58  
TYPE: PPT  
LENGTH: 375  
ORGANISM: Chamaecyparis obnata (Japanese Cypress)  
US-09-847-208-58

Query Match: 100.0% Score 100, DP 11, Length 375  
Best Local Similarity: 100.0%, Pred. No. 1, Sp. 0%  
Matches 27, Conservative 0, Mismatches 0, Indels 0, Gaps 0

CY 1 NGSAAPOUTNAGVTC:LS 20  
||||| ||| ||| |||  
Db 152 NGSAAPOUTNAGVTC:LS 371

RESULT 2  
US-09-847-208-64  
Sequence 68, Application US/09847208  
Publication No. US200100582100A1  
GENERAL INFORMATION:  
APPLICANT: Saxon, Andrew  
APPLICANT: Zhang, Ke  
APPLICANT: Zhu, Baocheng

1 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
2 TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
3 FILE REFERENCE: UC67.002A  
4 CURRENT APPLICATION NUMBER: US/09/847,208  
5 CURRENT FILING DATE: 2001-05-01  
6 NUMBER OF SEQ ID NOS: 177  
7 SOFTWARE: FastSeq for Windows Version 4.0  
8 SEQ ID NO 68  
9 LENGTH: 374  
10 TYPE: PRT  
11 ORGANISM: Cryptomeria japonica (Japanese cedar)  
12 US-09-847-208-68

Query Match 87.0%; Score 87; DB 11; Length 174;  
Best Local Similarity 85.0%; Pred. No. 2.1e 06;  
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 NGSAAPOLTKNAGVLTCLS 23  
DB 352 NGNATPOLTKNAGVLTCLS 371

RESULT 3  
US-09-847-208-109  
1 Sequence 109, Application US/09847208  
2 Publication No. US20030082190A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Saxon, Andrew  
5 APPLICANT: Zhang, Ke  
6 APPLICANT: Zhu, Daocheng  
7 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
8 TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
9 FILE REFERENCE: UC67.002A  
10 CURRENT APPLICATION NUMBER: US/09/847,208  
11 CURRENT FILING DATE: 2001-05-01  
12 NUMBER OF SEQ ID NOS: 177  
13 SOFTWARE: FastSeq for Windows Version 4.0  
14 SEQ ID NO 109  
15 LENGTH: 367  
16 TYPE: PRT  
17 ORGANISM: Juniperus ashei (Ozark white cedar)  
18 US-09-847-208-109

Query Match 73.0%; Score 73; DB 11; Length 167;  
Best Local Similarity 87.5%; Pred. No. 0.00042;  
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 NGSAAPOLTKNAGVLT 16  
DB 352 NGNATPOLTKNAGVLT 367

RESULT 4  
US-10-354-240-82  
1 Sequence 82, Application US/10354240  
2 Publication No. US20030185847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Sone, Toshio  
5 APPLICANT: Kume, Akirori  
6 APPLICANT: Dairiki, Kazuo  
7 APPLICANT: Iwama, Akiko  
8 APPLICANT: King, Kohsuke  
9 TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
10 FILE REFERENCE: SPO-10301  
11 CURRENT APPLICATION NUMBER: US/10/354,240  
12 CURRENT FILING DATE: 2003-01-29  
13 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
14 PRIOR FILING DATE: 1997-03-10  
15 PRIOR APPLICATION NUMBER: US 09/142,524  
16 PRIOR FILING DATE: 1998-09-09  
17 NUMBER OF SEQ ID NOS: 174  
18 SOFTWARE: Patent'n version 3.1  
19 SEQ ID NO 82

1 LENGTH: 15  
2 TYPE: PRT  
3 ORGANISM: Cryptomeria japonica  
4 FEATURE:  
5 NAME/KEY: MISC FEATURE  
6 LOCATION: 11-115  
7 OTHER INFORMATION: Cyt1 peptide, Figure 1, Row 68  
8 US-10-354-240-82

Query Match 87.0%; Score 73; DB 12; Length 15;  
Best Local Similarity 85.0%; Pred. No. 4e 06;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 6 PGTCKNAVLTCLTCL 15  
DB 1 PGTCKNAVLTCLTCL 15

RESULT 5  
US-10-354-240-81  
1 Sequence 81, Application US/10354240  
2 Publication No. US20030185847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Sone, Toshio  
5 APPLICANT: Kume, Akirori  
6 APPLICANT: Dairiki, Kazuo  
7 APPLICANT: Iwama, Akiko  
8 APPLICANT: King, Kohsuke  
9 TITLE OF INVENTION: Peptide Based Immunotherapeutic Agent for Treating Allergic Disease  
10 FILE REFERENCE: SPO-10301  
11 CURRENT APPLICATION NUMBER: US/10/354,240  
12 CURRENT FILING DATE: 2003-01-29  
13 PRIOR APPLICATION NUMBER: PCT/JP97/00740  
14 PRIOR FILING DATE: 1997-03-10  
15 PRIOR APPLICATION NUMBER: US 09/142,524  
16 PRIOR FILING DATE: 1998-09-09  
17 NUMBER OF SEQ ID NOS: 174  
18 SOFTWARE: Patent'n version 3.1  
19 SEQ ID NO 81  
20 LENGTH: 15  
21 TYPE: PRT  
22 ORGANISM: Cryptomeria japonica  
23 NAME/KEY: MISC FEATURE  
24 LOCATION: 11-115  
25 OTHER INFORMATION: Cyt1 peptide, Figure 1, Row 67  
26 US-10-354-240-81

Query Match 87.0%; Score 47; DB 12; Length 15;  
Best Local Similarity 86.0%; Pred. No. 0.00013;  
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NGSAAPOLTKNAGVLT 15  
DB 1 NGNATPOLTKNAGVLT 15

RESULT 6  
US-09-847-208-69  
1 Sequence 67, Application US/09847208  
2 Publication No. US20030185847A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Saxon, Andrew  
5 APPLICANT: Zhang, Ke  
6 APPLICANT: Zhu, Daocheng  
7 TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
8 TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
9 FILE REFERENCE: UC67.002A  
10 CURRENT APPLICATION NUMBER: US/09/847,208  
11 CURRENT FILING DATE: 2001-05-01  
12 NUMBER OF SEQ ID NOS: 177  
13 SOFTWARE: FastSeq for Windows Version 4.0  
14 SEQ ID NO 67







Best Local Similarity 47.08, Pred. No. 17,  
Matches 11; Conservative 5; Mismatches 3; Indels 4; Gaps 1;

Cy 2 GSAAPQLT---KNAGVLTCTLS 20  
Db 95 GNAALQITDVKLQDAGVYCCIIS 117

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RESULT 15
US-09-794-210-16
; Sequence 16, Application US/0979421:
; Patent No. US2002091246A1
; GENERAL INFORMATION:
; APPLICANT: PARDOLL, Drew
; APPLICANT: TSUCHIYA, Haruo
; APPLICANT: GORSKI, Kevin
; APPLICANT: "SENG, Su-Yi
; TITLE OF INVENTION: NEW DENDRITIC CELL CO STIMULATORY MOLECULES
; FILE REFERENCE: 2240-169345
; CURRENT APPLICATION NUMBER: US/09/794.2:0
; CURRENT FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 290
; TYPE: PR
; ORGAN: Sy. Murinae gen. sp.
US-09-794-210-16

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Query Match      45.0%   Score 45;   DB 9;   Length 290;
Best Local Similarity 47.8%   Pred. No. 20;
Matches 11; Conservative 5; Mismatches 3; Indels 4; Gaps 1;
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Dd				

Search completed: October 23, 2003, 11:25:50  
Job time : 31.4 secs

GenCore version: 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 23, 2003, 09:55:37 ; Search time 11.8 Seconds  
(without alignments)  
71.713 Million cell updates/sec

Title: US-09-202-464-36

Perfect score: 100

Sequence: 1 NCSAAPQLTKNAGVLTCLLS 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 128117

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 4: /cgn2\_6/prodata/2/iaa/6B\_COMB.pep:\*
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- 6: /cgn2\_6/prodata/2/iaa/backfiles.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARYS

Result No.	Score	Query Match	Length	DB ID	Description
1	87	87.0	20	3	US-08-467-023-59 Sequence 59, Appl
2	87	87.0	23	2	US-08-773-008-3 Sequence 3, Appl
3	87	87.0	63	3	US-08-467-023-65 Sequence 65, Appl
4	87	87.0	374	3	US-08-467-023-2 Sequence 2, Appl
5	73	73.0	367	3	US-08-467-023-95 Sequence 95, Appl
6	63	63.0	37	1	US-08-290-448A-23 Sequence 29, Appl
7	63	63.0	37	1	US-08-290-448A-23 Sequence 29, Appl
8	63	63.0	37	1	US-08-175-069A-29 Sequence 29, Appl
9	63	63.0	37	4	US-08-461-939B-29 Sequence 29, Appl
10	63	63.0	37	4	US-08-464-000-29 Sequence 29, Appl
11	63	63.0	388	1	US-08-290-448A-80 Sequence 80, Appl
12	63	63.0	388	1	US-08-290-448A-80 Sequence 80, Appl
13	63	63.0	388	1	US-08-175-069A-80 Sequence 80, Appl
14	63	63.0	388	4	US-08-461-939B-80 Sequence 80, Appl
15	63	63.0	388	4	US-08-464-000-80 Sequence 80, Appl
16	54	54.0	36	1	US-08-290-448A-31 Sequence 31, Appl
17	54	54.0	36	1	US-08-290-448A-31 Sequence 31, Appl
18	54	54.0	36	1	US-08-175-069A-31 Sequence 31, Appl
19	54	54.0	36	1	US-08-461-939B-31 Sequence 31, Appl
20	54	54.0	36	4	US-08-464-000-31 Sequence 31, Appl
21	50	50.0	35	1	US-08-290-448A-30 Sequence 30, Appl
22	50	50.0	35	1	US-08-290-448A-30 Sequence 30, Appl
23	50	50.0	35	1	US-08-175-069A-30 Sequence 30, Appl
24	50	50.0	35	4	US-08-461-939B-30 Sequence 30, Appl
25	50	50.0	35	4	US-08-464-000-30 Sequence 30, Appl
26	48.5	48.5	134	4	US-09-023-905A-30 Sequence 30, Appl
27	48.5	48.5	1129	4	US-09-023-905A-2 Sequence 2, Appl

28	48	48.0	322	3	US-08-467-023-97 Sequence 97, Appl
29	48	48.0	37	1	US-08-290-448A-20 Sequence 20, Appl
30	48	48.0	37	1	US-08-290-448A-20 Sequence 20, Appl
31	48	48.0	37	1	US-08-175-069A-20 Sequence 20, Appl
32	48	48.0	37	4	US-08-461-939B-20 Sequence 20, Appl
33	48	48.0	37	4	US-08-464-000-20 Sequence 20, Appl
34	48	48.0	61	1	US-08-290-448A-57 Sequence 57, Appl
35	48	48.0	61	1	US-08-290-448A-57 Sequence 57, Appl
36	48	48.0	61	1	US-08-290-448A-61 Sequence 61, Appl
37	48	48.0	61	1	US-08-290-448A-61 Sequence 61, Appl
38	48	48.0	61	1	US-08-175-069A-57 Sequence 57, Appl
39	48	48.0	61	1	US-08-175-069A-57 Sequence 57, Appl
40	48	48.0	61	4	US-08-461-939B-57 Sequence 57, Appl
41	48	48.0	61	4	US-08-461-939B-61 Sequence 61, Appl
42	48	48.0	61	4	US-08-464-000-57 Sequence 57, Appl
43	48	48.0	61	4	US-08-464-000-61 Sequence 61, Appl
44	48	48.0	151	1	US-08-290-448A-78 Sequence 78, Appl
45	48	48.0	151	1	US-08-290-448A-78 Sequence 78, Appl

# ALIGNMENTS

```

RESULT:
US-08-467-023-59
; Sequence 59, Application US/0846703
; Patent No. 6200166
; GENERAL INFORMATION:
; APPLICANT: Griffith, Brian D.
; APPLICANT: Pollock, Jeanne
; APPLICANT: Bond, Julian P.
; APPLICANT: Garman, Richard D.
; APPLICANT: Kuo, Mei-Chang
; APPLICANT: Yeung, Siu-Mei, H.
; APPLICANT: Brauer, Andrew
; APPLICANT: Exley, Mark A.
; APPLICANT: Powers, Steven E.
; TITLE OF INVENTION: Antigenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Immologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St.
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/0846703
; FILING DATE: June 6, 1996
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/356,025
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Reilly
; REGISTRATION NUMBER: 36,872
; REFERENCE/DOCKET NUMBER: 005,6 USD (IN: 028CFD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-5400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-59

Query Match 87.0%; Score 87; DB 3; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 54e-08;  
 Matches 17; Conservative 1; Mismatches 2; Indels 0;

QY 1 NGSAAPQLTKNAGVLTCSLS 20  
 ||| ||||| ||||| |||||  
 Db 1 NGNATPQLTKNAGVLTCSLS 20

## RESULT 2

US-08-773-008-3

; Sequence 3, Application US/08773008

; Patent No. 5874401

; GENERAL INFORMATION:

; APPLICANT: SANOU, Osamu

; APPLICANT: HINO, Kazuhiko

; APPLICANT: KURIMOTO, Masashi

; TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME.

; TITLE OF INVENTION: AND USES THEREOF

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BROWDY AND NEIMARK

; STREET: 419 Seventh Street, N.W., Suite 300

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20004

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.1.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/773,008

; FILING DATE: 24-DEC-1996

; CLASSIFICATION: 530

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/354,815

; FILING DATE: 08-DEC-1994

; APPLICATION NUMBER: JP 347017

; FILING DATE: 27-DEC-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: YUN, Allen C.

; REGISTRATION NUMBER: 37,971

; REFERENCE/DOCKET NUMBER: SANOU=1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-628-5197

; TELEFAX: 202-737-3528

; TELEX: 248633

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 23 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-773-008-3

Query Match

; Sequence 3, Application US/08773008

; Patent No. 5874401

; GENERAL INFORMATION:

; APPLICANT: SANOU, Osamu

; APPLICANT: HINO, Kazuhiko

; APPLICANT: KURIMOTO, Masashi

; TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME.

; TITLE OF INVENTION: AND USES THEREOF

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BROWDY AND NEIMARK

; STREET: 419 Seventh Street, N.W., Suite 300

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20004

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

## GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.

; APPLICANT: Pollock, Joanne

; APPLICANT: Bond, Julian F.

; APPLICANT: Garmar, Richard D.

; APPLICANT: Kuo, Mei-Chang

; APPLICANT: Yeung, Siu-wai H.

; APPLICANT: Brauer, Andrew

; APPLICANT: Exley, Mark A.

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunological Pharmaceuticals Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Wallingham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: 24-DEC-1996

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/245,245

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Marc E. Retallack

; REGISTRATION NUMBER: 38,432

; REFERENCE/DOCKET NUMBER: 024,610 (US/08/024,610)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-521-3480

; TELEFAX: 617-221-5941

; INFORMATION FOR SEQ ID NO: 65:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 63 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FRAGMENT TYPE: internal

US-08-467-023-59

Query Match

; Sequence 2, Application US/08467023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.

; APPLICANT: Pollock, Joanne

; APPLICANT: Bond, Julian F.

; APPLICANT: Garmar, Richard D.

; APPLICANT: Kuo, Mei-Chang

; APPLICANT: Yeung, Siu-wai H.

; APPLICANT: Brauer, Andrew

; APPLICANT: Exley, Mark A.

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunological Pharmaceuticals Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Wallingham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: December 6, 1994

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/245,245

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Marc E. Retallack

; REGISTRATION NUMBER: 38,432

; REFERENCE/DOCKET NUMBER: 024,610 (US/08/024,610)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-521-3480

; TELEFAX: 617-221-5941

; INFORMATION FOR SEQ ID NO: 65:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 63 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FRAGMENT TYPE: internal

```

1 NUMBER OF SEQUENCES: 261
2 CORRESPONDENCE ADDRESS:
3 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
4 STREET: 610 Lincoln St
5 CITY: Waltham
6 STATE: MA
7 COUNTRY: USA
8 ZIP: 02154
9 COMPUTER READABLE FORM:
10 MEDIUM TYPE: Floppy disk
11 COMPUTER: IBM PC compatible
12 OPERATING SYSTEM: PC-DOS/MS-DOS
13 SOFTWARE: PatentIn Release #1.0, Version #1.25
14 CURRENT APPLICATION DATA:
15 APPLICATION NUMBER: US/08/467,023
16 FILING DATE: June 6, 1995
17 CLASSIFICATION: 424
18 PRIOR APPLICATION DATA:
19 APPLICATION NUMBER: 08/350,225
20 FILING DATE: December 6, 1994
21 ATTORNEY/AGENT INFORMATION:
22 NAME: Jane E. Remillard
23 REGISTRATION NUMBER: 38,872
24 REFERENCE/DOCKET NUMBER: 025,6 USD2 (IMI-02BCPD2)
25 TELECOMMUNICATION INFORMATION:
26 TELEPHONE: (617) 227-7400
27 TELEFAX: (617) 227-5941
28 INFORMATION FOR SEQ ID NO: 2:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 374 amino acids
31 TYPE: amino acid
32 TOPOLOGY: linear
33 MOLECULE TYPE: protein
34 US-08-467-023-2
35
36 Query Match 87.0%; Score 87; DB 3; Length 374;
37 Best Local Similarity 85.0%; Pred. No. 4,86 07;
38 Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
39
40 CY 1 NGSAPOLTKNAGVTCILS 20
41 |::|::|::|::|::|::|::|
42 DB 352 NGNATPOLTKNAGVTCISL 37;
43
44 RESULT 5
45 US-08-467-023-95
46 Sequence 95, Application US/08467023
47 Patent No. 6090386
48 GENERAL INFORMATION:
49 APPLICANT: Griffith, Irwin J.;
50 APPLICANT: Pollock, Joanne;
51 APPLICANT: Bond, Julian F.;
52 APPLICANT: Garman, Richard D.;
53 APPLICANT: Kuo, Mei-Chang;
54 APPLICANT: Yeung, Siu-mei H.;
55 APPLICANT: Brauer, Andrew;
56 APPLICANT: Exley, Mark A.;
57 APPLICANT: Powers, Steven P.;
58 TITLE OF INVENTION: Allergenic Proteins And Peptides From
59 Japanese Cedar Pollen
60 NUMBER OF SEQUENCES: 261
61 CORRESPONDENCE ADDRESS:
62 ADDRESSEE: Immunologic Pharmaceuticals Corporation, Inc.
63 STREET: 610 Lincoln St
64 CITY: Waltham
65 STATE: MA
66 COUNTRY: USA
67 ZIP: 02154
68 COMPUTER READABLE FORM:
69 MEDIUM TYPE: Floppy disk
70 COMPUTER: IBM PC compatible
71 OPERATING SYSTEM: PC-DOS/MS-DOS
72 SOFTWARE: PatentIn Release #1.0, Version #1.25

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1 CURRENT APPLICATION DATA:
2 APPLICATION NUMBER: US/08/467,023
3 FILING DATE: June 6, 1995
4 CLASSIFICATION: 424
5 PRIOR APPLICATION DATA:
6 APPLICATION NUMBER: 08/350,225
7 FILING DATE: December 6, 1994
8 ATTORNEY/AGENT INFORMATION:
9 NAME: Jane E. Remillard
10 REGISTRATION NUMBER: 38,872
11 REFERENCE/DOCKET NUMBER: 025,6 USD2 (IMI-02BCPD2)
12 TELECOMMUNICATION INFORMATION:
13 TELEPHONE: (617) 227-7400
14 TELEFAX: (617) 227-5941
15 INFORMATION FOR SEQ ID NO: 1:
16 SEQUENCE CHARACTERISTICS:
17 LENGTH: 367 amino acids
18 TYPE: amino acid
19 TOPOLOGY: linear
20 MOLECULE TYPE: protein
21 US-08-467-023-95
22
23 Query Match 93.0%; Score 73; DB 3; Length 367;
24 Best Local Similarity 80.0%; Pred. No. 0,00033;
25 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
26
27 CY 1 NGSAPOLTKNAGVTCIL 14
28 |::|::|::|::|::|
29 DB 352 NGNAPOLTKNAGVTC 367
30
31 RESULT 6
32 US-08-290-446A-29
33 Sequence 29, Application US/08090446A
34 Patent No. 5676954
35 GENERAL INFORMATION:
36 APPLICANT: Rogers, Bruce
37 APPLICANT: Klapper, David G.
38 APPLICANT: Rainat, Thorunn
39 APPLICANT: Kuo, Mei-Chang
40 TITLE OF INVENTION: Allergenic Proteins From Ragweed And Urtica
41 NUMBER OF SEQUENCES: 93
42 CORRESPONDENCE ADDRESS:
43 ADDRESSEE: LARIVE & ROCKFIELD
44 STREET: 60 State Street, Suite 510
45 CITY: Boston
46 STATE: Massachusetts
47 COUNTRY: USA
48 ZIP: 02109-1475
49 COMPUTER READABLE FORM:
50 MEDIUM TYPE: Floppy disk
51 COMPUTER: IBM PC compatible
52 OPERATING SYSTEM: PC-DOS/MS-DOS
53 SOFTWARE: PatentIn Release #1.0, Version #1.25
54 CURRENT APPLICATION DATA:
55 APPLICATION NUMBER: US/08/290,446A
56 FILING DATE: August 15, 1994
57 PRIOR APPLICATION DATA:
58 APPLICATION NUMBER: US 07/523,951
59 FILING DATE: May 23, 1990
60 APPLICATION NUMBER: US 07/425,365
61 FILING DATE: March 17, 1989
62 ATTORNEY/AGENT INFORMATION:
63 NAME: Amy E. Mandagorras
64 REGISTRATION NUMBER: 36,207
65 REFERENCE/DOCKET NUMBER: IMI 01400
66 TELECOMMUNICATION INFORMATION:
67 TELEPHONE: (617) 227-7400
68 TELEFAX: (617) 227-5941
69 INFORMATION FOR SEQ ID NO: 29:
70 SEQUENCE CHARACTERISTICS:
71 LENGTH: 37 amino acids
72 TYPE: amino acid

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TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-290-448A-29

Query Match 63.0%; Score 63; DB 1; Length 37;  
Best Local Similarity 75.0%; Pred. No. 0.0043;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 2 GSAAPQLTKNAGVLTIC 17  
| | | | | | | | | | | | | | | | | | | | |  
DB 17 GDMVPLTNAGVLTIC 32

## RESULT 7

US-08-290-448A 29  
Sequence 29, Application US/08290448A  
Patent No. 5698204

## GENERAL INFORMATION:

APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Allergenic Proteins From Ratweed and Uses

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 State Street, suite 510

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290-448A

FILING DATE: August 15, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990

APPLICATION NUMBER: US 07/325,365

FILING DATE: March 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragouras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IMI-0180N

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 29:

SEQUENCE CHARACTERISTICS:

LENGTH: 37 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-290-448A-29

Query Match 63.0%; Score 63; DB 1; Length 37;  
Best Local Similarity 75.0%; Pred. No. 0.0043;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 2 GSAAPQLTKNAGVLTIC 17  
| | | | | | | | | | | | | | | | | | | | |  
DB 17 GDMVPLTNAGVLTIC 32

## RESULT 8

US-08-175-069A-29  
Sequence 29, Application US/08175069A

Patent No. 5746761  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ratweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-0180N  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 37 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-175-069A-29

Query Match 63.0%; Score 63; DB 1; Length 37;  
Best Local Similarity 75.0%; Pred. No. 0.0043;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 2 GSAAPQLTKNAGVLTIC 17  
| | | | | | | | | | | | | | | | | | | | |  
DB 17 GDMVPLTNAGVLTIC 32

## RESULT 9

US-08-461-919B-29  
Sequence 29, Application US/08461019B  
Patent No. 635919

## GENERAL INFORMATION:

APPLICANT: Rogers, Bruce

APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: Kuo, Mei-chang

TITLE OF INVENTION: Methods For Treating Sensitivity To A

TITLE OF INVENTION: Protein Allergen Using Peptides Which

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 28 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA: US/08/464,000  
 FILING DATE: 05-JUN-1995  
 APPLICATION NUMBER: US 08/464,000  
 FILING DATE: 05-JUN-1995  
 APPLICATION NUMBER: US 08/290,448  
 FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1993  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Atty E. Mandragoras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM1-0180NDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)742-4214  
 INFORMATION FOR SEQ ID NO: 29:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 37 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-461-919B-29

Query Match 63.08; Score 63; DB 4; Length 37;  
 Best Local Similarity 75.08; Pred. No. 0.00043;  
 Matches 12; Conservative 0; Mismatches 4; Indels 0;

QY 2 GSAAPQTKMAGVTC 17

DB 17 GDMVPOCTMAGVTC 32

RESULT 10  
 US-08-464-000-29  
 Sequence 29, Application US/08464000  
 Patent No. 6335020  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-chang  
 TITLE OF INVENTION: Allergic Repeptides from Ragweed Pollen  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/464,000  
 FILING DATE: 05-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/290,448  
 FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1993  
 APPLICATION NUMBER: US 07/325,365

FILING DATE: 17-MAR-1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Atty E. Mandragoras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM1-0180NDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)742-4214  
 INFORMATION FOR SEQ ID NO: 32:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 37 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-464-000-29  
 Query Match 63.08; Score 63; DB 4; Length 37;  
 Best Local Similarity 75.08; Pred. No. 0.00043;  
 Matches 12; Conservative 0; Mismatches 4; Indels 0;

QY 2 GSAAPQTKMAGVTC 17

DB 17 GDMVPOCTMAGVTC 32

RESULT 11  
 US-09-290-448A-80  
 Sequence 80, Application US/09290448A  
 Patent No. 5676954  
 GENERAL INFORMATION:  
 APPLICANT: Rogers, Bruce  
 APPLICANT: Klapper, David G.  
 APPLICANT: Rafnar, Thorunn  
 APPLICANT: Kuo, Mei-chang  
 TITLE OF INVENTION: Allergic Proteins from Ragweed and Moss  
 NUMBER OF SEQUENCES: 93  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LAHIVE & COCKFIELD  
 STREET: 60 State Street, Suite 510  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02109-1875  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/290,448A  
 FILING DATE: August 15, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1993  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Atty E. Mandragoras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IM1-0180NDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 80:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 388 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: Protein  
 US-09-290-448A-80

Query Match 63.08; Score 63; DB 4; Length 388;

Best Local Similarity 75.0%; Pred. No. 0.00072;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GSAAPOLTKNAGVLC 17  
DB 367 GGVVPLTNAGVLC 382

RESULT 12  
US-08-290-448A-80  
Sequence 80, Application US/08290448A  
Patent No. 5698204  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Ratnat, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IM1-0180N  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 80:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 388 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-290-448A-80  
Query Match 63.0%; Score 63; DB 17; Length 388;  
Best Local Similarity 75.0%; Pred. No. 0.00072;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 367 GGVVPLTNAGVLC 382

RESULT 13  
US-08-175-069A-80  
Sequence 80, Application US/08175069A  
Patent No. 5776761  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Ratnat, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IM1-0180N  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 80:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 388 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US 08-175-069A-80  
Query Match 63.0%; Score 63; DB 17; Length 388;  
Best Local Similarity 75.0%; Pred. No. 0.00072;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GSAAPOLTKNAGVLC 17  
DB 367 GGVVPLTNAGVLC 382

RESULT 14  
US-08-461-930A-80  
Sequence 80, Application US/08461930A  
Patent No. 635019  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Ratnat, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Methods For Treating Sensitivity To A  
TITLE OF INVENTION: Protein Allergen Using Peptides Which Induce A T-Cell Response  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/461,930A  
FILING DATE:  
PRIOR APPLICATION DATA:

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1  APPLICATION NUMBER: US 08/464,000
2  FILING DATE: 05-JUN-1995
3  APPLICATION NUMBER: US 08/290,449
4  FILING DATE: 15-AUG-1994
5  APPLICATION NUMBER: US 07/529,951
6  FILING DATE: 29-MAY-1990
7  APPLICATION NUMBER: US 07/325,365
8  FILING DATE: 17-MAR-1989
9  ATTORNEY/AGENT INFORMATION:
10  NAME: Amy E. Mandragouras
11  REGISTRATION NUMBER: 36,207
12  REFERENCE/DOCKET NUMBER: IM1-018CN2V
13  TELECOMMUNICATION INFORMATION:
14  TELEPHONE: (617)227-7400
15  TELEFAX: (617)742-4214
16  INFORMATION FOR SEQ ID NO: 80:
17  SEQUENCE CHARACTERISTICS:
18  LENGTH: 388 amino acids
19  TYPE: amino acid
20  TOPOLOGY: linear
21  MOLECULE TYPE: protein
22  US-08-461-9398-80

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Query Match 63.0%; Score 63; DB 4; Length 388;
Best Local Similarity 75.0%; Pred. No. 0.0072;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 367 GGVVPQLTMNAGVLTC 382

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RESULT 15
US-08-464-000-80
1  Sequence 80, Application US/08464000
2  Patent No. 6335020
3  GENERAL INFORMATION:
4  APPLICANT: Rogers, Bruce
5  APPLICANT: Klapper, David G.
6  APPLICANT: Rafnar, Thorunn
7  APPLICANT: Kuc, Mei-chang
8  TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
9  NUMBER OF SEQUENCES: 93
10  CORRESPONDENCE ADDRESS:
11  ADDRESSEE: LAHIVE & COCKFIELD, LLP
12  STREET: 60 State Street
13  CITY: Boston
14  STATE: Massachusetts
15  COUNTRY: USA
16  ZIP: 02109-1875
17  COMPUTER READABLE FORM:
18  MEDIUM TYPE: Floppy disk
19  COMPUTER: IBM PC compatible
20  OPERATING SYSTEM: PC-DOS/MS-DOS
21  SOFTWARE: Patent In Release #1.0, Version #1.25
22  CURRENT APPLICATION DATA:
23  APPLICATION NUMBER: US/08/464,000
24  FILING DATE: 05-JUN-1995
25  PRIOR APPLICATION DATA:
26  APPLICATION NUMBER: US 08/290,449
27  FILING DATE: 15-AUG-1994
28  APPLICATION NUMBER: US 07/529,951
29  FILING DATE: 29-MAY-1990
30  APPLICATION NUMBER: US 07/325,365
31  FILING DATE: 17-MAR-1989
32  ATTORNEY/AGENT INFORMATION:
33  NAME: Amy E. Mandragouras
34  REGISTRATION NUMBER: 36,207
35  REFERENCE/DOCKET NUMBER: IM1-018CN2
36  TELECOMMUNICATION INFORMATION:
37  TELEPHONE: (617)227-7400
38  TELEFAX: (617)227-5941
39  INFORMATION FOR SEQ ID NO: 80:

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1  SEQUENCE CHARACTERISTICS:
2  LENGTH: 388 amino acids
3  TYPE: amino acid
4  TOPOLOGY: linear
5  MOLECULE TYPE: protein
6  US-08-464-000-80
7
8  Query Match 63.0%; Score 63; DB 4; Length 388;
9  Best Local Similarity 75.0%; Pred. No. 0.0072;
10  Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
11
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13     | 1111111111111111
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